DISEASE

LONDON:

A NEW DISCOVERY

Of the

SCORVEY.

Comprizing

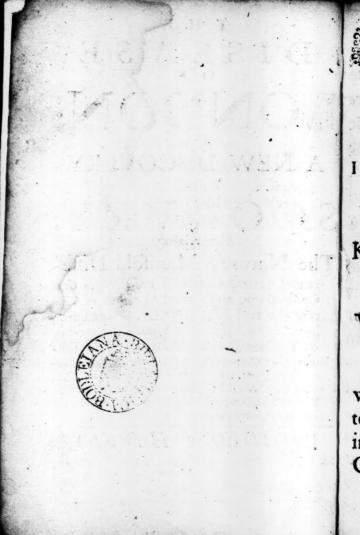
The Nature, Manifold Diffe-

rences, various Causes, Signs, Prognostics, Chronology, and feveral Methods of Curing the faid DISEASE by Remedies. both Galenical, and Chymical, together with Anatomical Observations, and Discourses on Conunifions, Palfies, Apoplexies, Rhenmatisms, Gouts, Malignant Fevors, and Small Pox. with their feveral Methods of Cure and Remedies. Likewise particular Observations on most of the Fore mentioned Difeases.

By GIDEON HARVEY,

M. D. Phylician in Ordinary to His Majesty, and in the Time of the Rebellion, Fellow of the College of Physicians at the Hague.

LONDON, Printed by T. James, for W. Thackery, at the Angel in Duck-Lane. 1675. Thom Junner



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AND THE PROPERTY OF THE PROPER

TO THE MOST

MIGHTY,

AND MOST

INVINCIBLE MONARCH,

Charles II.

KING of Great BRITAIN, France, and Ireland.

When your People, Great SIR, had for many Years been Afflicted with Maniacisms, and Fascinated Distempers of their Minds, in a moment You miraculously Cured them upon Your Blessed A 2

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Restauration; a good Criss, whereof not the Influence of the T Stars, but of Divine Providence was the Primar Efficient. The Diseases of their Estates were no less Great and Dangerous, fome had Lost all, others had Little left, to these likewise your Unparallel Justice was a Soveraign Remedy, by Restoring to every one what was his just Right. Moreover that their Lives might be Præserved from the pernicious Attempts of Empirics, You have Re-establish a College of Experienced Phyficians, and to these your Royal Laboratory sheweth out of what. Materials, and in what Manner

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is the best Remedies are to be he Prapared; So, as You are the Greatest KING, You are the greatest Physician, whence I have præsumed to lay this Treatise at the Feet of Your most Gracious Majesty, humbly craving Your ur Protection against the Scorvey of this Age, and imploring Your Royal Clemency for a Pardon for this Address, am in all Duty bound to Acknowledg my self,

> The most Humble, most Obedient, and Meanest of Your Man jesties Subjects, Harvey.

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THE

PRÆFACE.

T is Observable, that the First Solid Foundation of Physick was laid by the Great Architect of that Art Hippocrates, in an Isle called Coos; and it is no less Remarkable, that the truest Superstructure was made on it, in this Island, by the Famed College of Phylicians of London; It was a Member of that Society, Doctor William Harvey, of Immortal Memory, that had laid another Basis, by Detecting the Circulation of the Blood, for which this Britain may as justly Merit the Title of Divine, as the other Cous. The Rubbish that was cast about it by Parisanus, Leighnerus, and others to Obscure it, tended to render it more firm; notwithstanding, this wis fo Smoothly removed by that Incomparable Phy-Geinn

sician, Sir George Ent, the now Prasident of the College, in his Apology, that all Universities did then adjudge those void of Apprebension, that did not readily Embrace that Principle, and that it was Impossible, for any man to Arrive to be a Physician without the

knowledg of it.

whence the superfluous Moisture proceeded, which we hourly spit out, until the out-let, viz. The Ductus Salivales were discovered by the Learned Doctor Wharton, a Fellow of the College: and though it was generally believed, nothing could be further declared, touching the structure of the Liver, yet so Elegant a description of its most Intime parts, and dissemination of its Vessels, Cholidochus, and a very exact pursuit of the Limpheducts was made by the most Accomplisht Doctor Glisson (the late Trassdent) in his Anatomia Hepatis, that in a manner it appeared, as if nothing had been solidly Written of it by any before him.

That some Distempers had escaped the Obfervation of the Gracian and Arabian Physicians, was evidenced by the eminently Learned Doctor Bates, Doctor Glisson, and Doctor Regemorter, Collegues, in that excellent Treatise de Rachitide. In all my Travels, I had

never

never the good Fortune to be particularly acquainted with a Person equal in Litterature, Experience and Observation with Doctor Bates; I must confess, I went ever from him more knowing, than I was before.

The Pharmacopæa compiled by the whole Body of this Apollinean Society, doth justly Merit the Character of a most Elaborate work, from those, that shall compare the several compositions in it with their Original, where the amendments of Omitting of Superfluors, incongrous, or Asymmetrous ingredients, and substituting of necessary and proportionate Correctives, are to every Eye very Obvious ; and their Care, that those Medicines be Neatly, and Artificially prapared by the Apothecaries of London, bath proved so successful, that Travellers are Obliged to Atteft, that Pharmacy is in no Forreign part so much Improved, as it is here; and therefore why is not the London Theriaca Andromachi aqual to Venice Treacle, which latter oft times consists only of the two third parts of the Ingredients, and the better half of them Garbles? Or why should the Confectio Alkermes of Monpelier exceed that of London? I must confess our Apothecaries set an higher Price upon their Medicines and their Labour too, than the French, and not without Reason; for you must agree to me, that

that an English Apothecary, who puts on three pair of sleeves a Week, and comes Neatly about your Posteriora, doth better deferve a shilling for giving you a Glyfter, than a French Apothecary wearing his Half-fhirt 4 Month, Two-pence. That by the way, but fill I must say, that Medicines are no where so Neatly, so Honestly, and so skilfully. prapared as here at London, and in that particular you may easily believe me a Judg competent enough, fince when I was a Student in Phylick, Lodging Turpofely at an Apothecaries House, I have spent many a half bour at the Peftil and Mortar, and did arrive to that Proficiency, that I could pratend to dispence Methridate, or make up a Paracelfus Emplaster, with any of the Trade.

It is not so much in Pharmacy, as Chyrurgery, the French claim the superlative; It is confessed, a French-Man shall very dexterously take off six Legs or Arms, to One of an English surgeon; he shall make an Incision with his scissors, as far as he can well reach with his sistul trobe, let it go as far, as it will between the Muscles, or the Cutis and the Membrana Carnosa, when an English surgeon shall only clap in a Dorst into the Orifice: He shall force in two of his Fingers into a Wound as far as he can possibly reach, though the Orifice will scarce admit a Probe with-

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without great pain; whereas one of our surgeons shall gently stroak the coagulated Blood, or lodged Matter towards the Orifice. This is the Difference, but the Issue is, that of those fix Members Amputated, four or five of the Patients Shall retire into the other World, whereas on the other side probably five among the fix shall be praserved with their Legs on. Touching those large Incifions, it's observable, that in making them they oft cut a Vein or Artery afunder, and cause Mortal Hamorrhages, or at least oft create incurable Ulcers; whereas the other without putting the Patient to that Extremity of pain, or danger, shall safely and easily Cure him in a few dayes. Of how dangerous a Consequence the forcing of Fingers into Wounds doth oft prove, is abundantly Evident to all Experienced Surgeons. It must be granted, that in Some Cases Members cannot be praserved, likewise Incisions may be necessary, where Matter is suspected to lodge remote; or a Finger sometimes may be gently slid into a Wound, to clear it of coagulated Blood or Matter, that's lodg'd near the Orifice; but to practice Surgery as I have seen it in most parts of France (excepting only the Charity Hospital at Paris, where in my younger Tears, for to acquire a competent knowledge in that part of Physick, I had leave to dress for

for some Months) is not comparable to the Practice of English Surgeons; fo that conadering the French Practice I have oft admired, that in some Countries, you shall scarce see a Person of Quality, but must have his French Surgeon at his Elbow, as if no Body could Cure a Clap but a French Surgeon; for I cannot imagine what other Bufness they can have for him, now Duels are grown so much out of Fashion. That I do not Write this out of a Prajudice, but from a real Truth, you may apprehend from my particular Humour, which sometimes inclines me, to be extremely pleased with French Company. I must now return to give you likewise an account of the Practice of Phyfick, wherein the Fellows of the College have proved so wonderfully Successful, that their Methods of Curing the most stubborn of Dis-eases, may serve for a sit Pattern to all the World to Practice by, and I cannot deny, but in many Cases it bath proved so to me, which to acknowledg is the fole occasion of my Introducing this Discourse. But possibly it may appear strange, that of a Society, whose Fame is spread as far as the Art of Physick it self, I should not endeavor to be a Member. In relation to that particular, I am Obliged to give you Satisfaction; it is many Years past, (viz. In the time of Rebellion)

bellion) when I first arrived at London, to Initiate my Practice in Physick, at which time I ought to have entred into the College, but finding, that the Humour of some was much towards Preaching, Praying, and all the Knacks of Phanaticism, others driving a way quite contrary; in fine the difference was such, that I concluded I should scarce make up my account among them, and therefore judged it more Expedient, to purfue my Advantages abroad; but now finding the College Re-establisht, and Revested with their Ancient Lustre, and many to have got in, who when I begun to Practice, were not come from the Grammar School, if I should come in I must give Pracedency to those Toungsters, which I imagine I shall never do. My next Affair is to preacquaint you with the Design of this Treatise; I do assure you, I have Inserted nothing in it, but what I have found to be true, and have used my utmost Endeavours to Trac all the Steps of this General Disease; I have Imparted to you Some Secrets, which when you know, and have Tried, you will have Reason to believe, I had no other Drift in Divulging this Octavo, than fincerely to serve the Publick.

Farewel.

June, 10. 1675. Hatton Garden.

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THE

DISEASE

OF

LONDON.

CHAP. I.

Containing

A Præmissory Discourse of the SCORVEY.

1. The Design of the Treatise. 2. The Synonyma's and Derivation of the Scorvey. 3. Whether the Scorvey was known to Hippocrates or Galen? that it's contagious and hareditary. 4. That the Scorvey is of about 200 years standing.

Will not resume, what by others hath so oft been chaw'd upon, and that take for a reason, if I do not tell you a Story out of Engalen, solomon Albertus, or Wierus, a sort of people, that from one another re-collected

lected a most prodigal number of Scorbutick Symptoms, by the fame Rule of Arithmetical Progression, Galen made use of in mustering his Centuries of Pulses, an impertinent variety, more imaginary, than perceptible by the subtillest Aranean Tack. By what I here condemn, you may conjecture, I prætend to divulge something particular, in fuch terms, as shall as little tire you in the reading, as me in writing. To commence my Difcourse from the Description of my Subject, seemeth most expedient, wherein an exactness ought to be aimed at, exceeding what hitherto hath been heeded, which may oblige fuch, as when meeting with a diftemper, they are not well acquainted with, are compelled to tell the Patient, it is the Scorvey.

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§ 2. Scorbutus and Scorvey (qualification) are words bastardized from Scorbeck, a Westphalian Primitive, denoting a Hoarse Throat, probably a Symptom, that antiently attended that Disease, and in these dayes is now and then observed a Concomitant.

tant, especially among the Danes, where it passed by the name of schermund; who moreover being oft rack'd with tearing pains in their legs, gave them the name of schorbein, or Tear-leg. By the way, I must here take notice of a vulgar error, in the Orthography of the word scurvey, which ought to be written scorvey, as being derived from the word scorbeck. The Low Dutch discerning; it oft exercifeth its fury on the Guts, by caufing insufferable Gripes, chuse to call it Schenrbuyck or Tear-belly; also de Blame Shuit, from those blew spots, that haunt Scorbutick Legs. From the stink of Breath and foulness of the Gums, the Italians name it La Marcia di Bocca, or Scornobocca, implying a corruption of the mouth. But if it be proper to derive the denomination of a Disease from its chief Symptoms, the word Gingipedium (crassa & pingui Minerva) expresseth its nature more amply, declaring it most incommodious (gingivis & pedibus) to the gums and legs; and it may be conjectured, this kind of Nomenclature was twifted together out of those two Antick words B 2

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The Disease of London, or

words latinized somarian and oresponistin, the former denoting a foulness of mouth, from squal@ rania ; or a foul mouth, from some raxo, the latter being expounded a Disease of the legs, as may be inferred from Pling Histor. Natur. lib. 35. cap. 3. In Germania trans Rhenum castris a Germanico Casare promotis, maritimo tra-Etu fons erat aqua dulcis solus, qua pota intra biennium dentes deciderent, compagesque in genibus solverentur, stomacacen Medici vocabant, & Scelotyrben: i. e. The Campagne being removed by Germanicus Casar to the other fide of the Rhyne in Germany, there was onely one Fountain of sweet water, in a tract near the Sea, whereof drinking, in two years time their teeth would fall out, and the compofure of their knees would be quite relaxed; the Physicians called it stomacace and scelotyrbe.

§ 3. The use of these words seemeth to be of a far ancienter date, than Pliny's age, since strabo a Subject of Augustus Casar, in the Sixth Book of his Geography, about the end,

end, relates the Roman Army, that wastransported into Arabia, to be infested with a Disease called stomacace and Scelotyrbe. Galen also in that Book de Definitionibus Medicis, makes mention of a scelotyrbe. But not onely, whether those Maladies implied by these two obsolete words, but whether those great Spleens described by Hippocrates de Morbis Intern. 2. Prad. 2. Prognost. the Black Jaundice, the Ileos Hamatites, or the Black Vitiligo (being a deformity of the Skin, haunted with large duskish spots) be not the same Disease, Modern Physicians term the scorvey, hath been controverted by most, that have handled this Subject. That each of these have a resemblance in their Causes and Symptoms to the scorvey, needs no debate; for according to Hippocrates in the præcedent Citation, in those great Spleens The Belly is puffed up, afterward the Spleen doth also swell, and is bird, and acute pains happen to the Spleen, the colour is also changed and looks black, pale, and like a Fomegranate shell; and an ill smell cometh out of their mouth, and the gums scent ill and separate from

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the teeth; and on the legs there break out Vlcers , also nocturnal Pustuls; and the parts are extenuated, and their ordure is not evacuated. The Ilios Hematites is also decipher'd with features not unlike the former: The Disease, saith Hippocrates, beginneth about the Autumn, and therein thefe things happen: There commeth and Scent out of the mouth from the feeth, and the gums separate from them; and blood stoweth out of the nostrills; and Sometines ulcers break out on their legs, and other things appear, and the colour groweth black, and the skin thin. The curiofity prædominating so much among Authors, touching the identity of primæval and subsequent Diseases, might be construed very superfluous; for the refult, whether it be fo or not, contributeth no more light to the scrutiny of the scorvey, than a Candle to the Sun at Noon-day; though perchance exercitii gratia, and for reputation of being veried in Antick Lectures, it may be permitted to be ventilated. The opinion of the major part of the learned, infers from the near alliance of Sym-. ptoms,

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ptoms, the Great Spleens of Hippocrates to be the scorvey; and some others by the same reason are convinced, the Black faundice, the Ileos Hematites and Black Vitiligo, are no other. If this inference be received, Hypochondriack Melancholy, Hysterick Passion, Quartan Ague, and most other Splenetick Maladies, may be reduced as Species to the Gender of the scorvey. But upon a strict survey your astimate will conclude, that the distinction of Diseases doth not depend so much on common accidents, as properties; or to speak phyfically, on Pathognomonics, derived from a Specifick qualification, in their Causes, Parts affected, and Symptoms. Thus the proegumenal cause of the scorvey, though its vulgarly attributed to Melancholy, or rather Salt vitiated or degenerated to a præternatural, and in that qualification may be a common parent to this, the Great Spleens, Black faundice, and the rest; yet the more nice infinuation of others hath detected the Salts of the Blood so specifically receded from their natural Constitution in the Scorvey, and to have indued fuch peregrine qualities, that they are not capable to give birth to any other Difease than this Moreover, by most the part affected and harth of the præalleged distempers, are determined unically the Spleen; in the Scorvey the Stomach (by some the Pancreas) the Spleen and Liver; and some do alfo accuse the brain, though per denteropathiam. Among the Symptoms the difference is most perspicuous, the exufflation of the Spleen is not alwayes discovered in the Scorvey, though in great Spleens never absent : In the Ileas Hamatites there is loss of blood by Stool, attended with tearing Gripes; which in this distemper is not assumed for a Pathognomonic. The Scorvey: is particularly malignant, because it is contagious, and so radicated, that for some months, and fræquently years, it doth prædominate over the most potent of Medicines; and Infants oft bringing Scorbutick Seminaries with them into the world, speak it hæreditary; insomuch that on some Families the Scorvey hath been intailed with their Estates. Thefe

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These Prædicates certainly are not convertible with the fore-mentioned Diseases, and therefore ought not so railly to be pronounced the Scorvey; which moreover is Endemick, the others Epidemick and Pandemick. Thus far no sensible error can be incurred, if upon comprise of the whole; these Difeases are conceded to be Scorbutick, in the same terms, as one may aptly explain a Pleurisie, an Empyema, an Inveterate Cough, and many other Pulmonic Diseases; Afthmatic, but not an Afthma; unless derived from Saline Scorbutic Procataratic and Procgumenal Causes.

\$ 4. The scorvey, in respect of its primar appearance, seems to bear no certainty in Chronology, since some describe it a distemper, that for some Ages hath harrassed the crazy inhabitants of the world; others will not allow it a Disease of longer date, than Authors of the last Century record its first budding among the Danes, Saxons, and Westphalians; which is within the time of Two hundred years at most. This latter sentiment is easily sup-

Supported by this Argument; viz. No Disease described by any of the Greek, Latine, or Arabian Phylicians, doth exactly quadrate in Parts affected, Causes, and Symptoms with this Northern Scorvey 3 and therefore may be inferred a new up-start Difease: especially that fort of Scorvey, which in my Little Venus I term Epidemick. Probably an objection may be offer'd, that fince those Procatarctic and Proegumenal Causes, had their being many Ages past, and consequently an influence on humane Bodies, they must necessarily (according to that trite Axiome, Polita causa ponitur effectus) have constituted their effect, viz. the Scorvey. To this is replied, History maketh no report of those occasions, that are impowered to produce this Malady. The Græcians, among whom those great Spleens of Hippocrates, being nearest of kin to the Scorvey, were fo popular, lived in a benign air, and were constantly imployed in Warlick Exercises, whereby they were diverted from Melancholy, or other dull Passions, from Excess of Sleep or Sloath.

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Sloath, and other inconveniences: fo that those External Causes, that now concur in the production of the Scorvey, had no prævalence on them; and therefore improbable, our Diftemper should have been engender'd then, or any time before. But waving other Causes, and confidering only, it is an Endemick Disease, which hath its chief dependance on the Air, and particular disposition of the Clime, wherein alterations happen by evaporations from Sea or Earth, and Coeleftial Irradiations, which being fo various and fræquent, it's no wonder, if the Scorvey be a recent production, or if every moneth or year Difeafes of new aspects emerge.

CHAP. II.

Of the Mouth-Scorvey.

I The general kinds of the Scorvey, and what the Mouth-Scorvey is; the degrees of the Mouth-Scorvey. 2. That little hard Swellings of the Mouth and a Ranula, are Scorbutick. tick. 3. That a vagous recurrent Tooth-ache is Scorbutick. 4. What a Scorbutick Thrush is. 5. The variation of the colour of the Gums in the Scorvey. 6. That a Stinking Breath is Scorbutick. 7. That Small Fistula's in the Angles of the Mouth and Root of the Gums are Scorbutick.

Nto two great branches the Scorvey feems to be divaricated, namely a foul Scorbutick Month , or rather the Mouth-Scorvey, and Scorbutick Legs, or Leg-Scorvey; to which very aptly a third may be added, to wit the Joynt-Scorvey. The former confifts of Swelled, Laxe, Spungy, Difcoloured, fore Gums, loose Teeth, that in process of time do inevitably rot or cariate, and a stinking Breath; which as they ascend through various degrees to an extremity, do render the disease very incommodious, haveing observed the tumefaction of the Gums in some so luxuriant, as to obstruct the Lips in closing, appearing more like a Fungus grown to the Jaw, then Gums; on the contrary in others

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thers, the Gums have been intirely corroded away, fo as the > outpoors > or juncture of the Teeth, and Jaw, might have been evidently discerned; and you may receive it for a truth, that the corrofion was continuated with that rapid violence, in the Lips of a certain Scorbutick Dutchman who for cure was admitted into the Hospital at Leyden, that being quite devoured, the Teeth were left bare, and exposed to the Air: wherefore note. that the first degree of a foul or putrid Mouth is a swelling of the Gums, through a thin ferous or ichorous blood, soon after disposed to be prefsed out of its bounds, with the least touch of a Finger, infomuch that it's fræquently observed, that Scorbuticks biting a peice of bread, the remainder in their hands will appear all bloody about the edges: Hereupon the Gums fissure or cleave, afterwards changing into phagedænic ulcers, which not feldom are fucceeded by malignant cancerousulcers, threatning an extream deformity and devocation of all the circumjacent parts.

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6 2. More than once I have given advice forlittle hard unæqual swellings about the infide of the Lips, sometimes under the Tongue, of a livid, or not infræquently of an ash colour and dolorous. These by Chyrurgions are termed Cancers of the Mouth, and indeed are little less than Cancerous, and confequently Scorbutick. Neither would I have you judge it a Paradox, if I affert an Endemic Cancer in whatsoever part, to be an extream degree of a scorvey; as hereafter may be more plainly repræsented. Of the nature of the pramifed Cancers in the Mouth, doth participate a Ranula, a Tubercle under the Tongue, fo called, because being an impediment to the free motion of the Tongue, in pronouncing words, that contain the Liquids L or R, it occasions them to found frog-like. The Cure hereof is viually attempted by Aftringents and Acids, as Oyl of Vitriol and others, whence feldom or never a fucces being answered to the intention of the Chyrurgion, converts his hopes to the sharp Steel, or the Fire. But were it fupsupposed scorbutick, as many other figns accompanying, do certainly evince it to be, might infallibly perform the Cure by a Scorbutic Topick.

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of 3. A vagous re-current Tooth-ach, especially in Women, doth often act a part in the *Syndrome* of a *Mouth-Scorvey*, which in distinction to the ordinary Tooth-ach, hath concomitant a very grating pain, with a violent salivation of thin saline Rheum; and as it is that, which for Cure hath been an *Opprobrium Medicorum*, for their frustraneous applications, so the most facile and indubious method of solaging this pain by Antiscorbuticks, is an argument, there hath been a Hallucination, in discerning the true cause of it.

§ 4. Grandines, or little whitish hard swellings, of the bigness of a Radish seed, with a small perforation in the middle, and running about the Tongue, Gums, Palate, and inside of the Cheeks, is a Scorbutick Thrush, and cured onely by Antiscorbuticks.

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And those that have been curious Obfervers in their practice, can attelt there is a periodical swelling of the Toulis (or Almonds under the Ears) and a relaxation of the Vvula and Palat, which must be accounted amongst the Diagnosticks of a Month-Scorvey; and fuch being render'd infinitely worse by the use of ordinary astringents, I have cured with a Gargarism of Betony, sage and Scorveygraft, Elder and Rosemary-flowers, and Nettle-seeds, boyl'd in white Wine and Water, with a few drops of spirit of sal-armoniac, instilled into the decoction; but not without affiftance of internal Medicines.

§ 5. The discoloration of the Gums in a Scorbutick Mouth first appears in a deep red, afterwards in a spotted yellow, then duskish and leadish, and at last a cadaverous pale, or a cancerous black. The Veins about the Gums, under the Tongue, and the inside of the Lips, shew unequal, swell'd and ill-colour'd. The foreness of the Gums feels sometimes burning, or as if prick'd with Needles; other

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other times the pain lies deep about the Periostium, or Membrane of the Jaw, not unlike the Tooth-ach.

§ 6. Among the Pathognomonics of a Month-Scorvey, none is more certainly concomitant than a Stinking Breath; infomuch that it is beyond all contradiction, where there is a continual stink of Breath, (evident causes, as Ulcers of the Mouth, Throat and Lungs always excepted) there is a confirmed, or at least a growing Scorvey: and among all those Scorbuticks I ever was concerned with in relation to their cure, I never found that symptom absent; which if by the course of some years it be established in a deep radication, is refractory to all cure; if recent, all hope is repofed in a ttrict Scorbutick method. And for this fo ungrateful fymptom, the Icle Specifick is the Urinous Spirit of Sal Armoniack Now upon the Affumption, that the Scorvey is an Endemick Malady to our Island, you must suppose a stinking Breath very popular, which indeed will not be disputed by one, that possesses the right use of of his Nose; and those that are exquisitely sensible in that Organ, shall tell you, that the Cabins of Ships expire a stronger Air of Scorbutick stinking Breaths, than of Pitch or Tar.

§ 7. This Chapter we will limit with the subnexion of another Scorbutick Symptom, not much receding from a stinking Breath, viz. Fistuls in the Angles of the Mouth, and Root of the Gums, which being squeezed three or four times a day, render a very putrid matter, the spring whereof is ordinarily deprehended in a Scorbutick small Glandul.

Of the Leg-Scorvey.

1. A Description of the Leg-Scorves.
2. A more ample Declaration of its Symptoms.
3. Of Scorbitick Ulcers.
4. Of Scorbitick Leg-pains.
5. Of Varicous Legs.

s 1. The Scorvey particularly exerting its enmity on parts 6 distant as the Mouth and Legs, speaks ex-

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it a Disease, requiring a more distinct Confideration; and therefore as in the former, so in this latter is designed to give you a very articulate Description: but observe by the way, that a lassitude and feebleness of the Knees is common also to a Month-Scorvey.

The Leg-Scorvey comprehends a great lassitude and weakness of the Knees and Ankles, spots and blotches of feveral figures and colours on the Shins, and particularly just below the Knee, and also near the Ankles, Pustuls, uneven Tumours and Tubercles of Purpre Variegated Red. Oedematous Legs, with thick, hard, callous, livid, or sometimes brown red Skin about the Ancle, ulcers on the Shin, and near the Ankle, pains of the Knees, likewise deep pains along the Shinbone, continuing all day, but raging most in the night, are all fræquent concomitants of the Leg-Scorvey.

§ 2. The feebleness of the Knees and Ankles coming gradually upon you, without any evident præceding Difease, or any suddain alteration of looks, or habit of body; is an Item

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sufficient to imform you what's at hand: Namely, Spots first red, and then yellow, livid, and at last of an ash colour; upon this expect blotches along the fide of your Legs, appearing first reddish, then yellowith very like an Eryspelas, but yet different from it, because there is not that heat and smart in Scorbutick blotches; neither are they fo fiery, or corrodeing, a to be converted immediately into ulcers, but grow rough and peel off. These generaly are succeeded by pustles, turbercles, or bosches and tumors; at first of an uncertain colour, in one part deep red, in another pale; though upon a small interval of time turn deep red all over, grow? ing exceeding painful and hot, a fign of their being ready to burst out into Ulcers, or nafty Scabs.

§ 3. Scorbutick ulcers, especially those on the Shins, and near the Ancle, upon a short continuance grow callous about the Lips, within painful, as if prick'd with Needles; their slesh appearing torn, uneven, of an ill aspect, the Lips tumid, the matter undigested thin,

thin, and ichorous, at length turns fordid, phagedanic, and cancerous; the bone underneath contracts a *Carries* or *Spina Ventosa*.

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- 6. 4. Scorbutick Leg-pains, either haunt the Tendons about the Knee and Ancle, or the Membranes of the Muscles, or the Periostium. A Tendinous pain, is a shrinking or contracting Soreness; that of the Membranes of the Muscles sharp and distending, that of the Periostium contunding and grating.
- when the Veins are Tumefied to an extraordinary Protuberance. The Effect of all these pramised Symptoms doth for the most part Result into Gross, Deformed, Tumefied Legs, some appearing sull of Botches, others Tumefied, so as to pit upon the pressure of a Finger, and variously Discolour'd all over, like the Shins of those, that sit too near the Fire in the Winter; such Monstrously Tumefied Legs are frequently observed amongst Dutch Skippers.

CHAP.

Of the Joynt-Scorvey.

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1. Symptoms of the Joynt-Scorvey,
2. Description of the Joynt-Evil.
3. External Rheumatisms Scorbutick.
4. Internal Rheumatisms Scorbutick also.
5. Frangibility and Cracking of the Joynts.
6. The Gout is not a Pain in the Joynt.
7. The Seat of the Gout.
8. The kinds of the Gout.

with an Universal Soreness of Limbs, especially Arms,
Shoulders, Neck-bones, and along
down their Back, about the Brest,
and round the Middle, with a Lassitude, or Wearinets, and no Disposition
at all to stir or move, but inclined to
Drowsiness and Heaviness, is the Complaint of many, upon the least alteration
of Weather, who beyond all (peradventure) must be termed troubled
with the Joynt-Scorvey; provided the
said Lassitude be not such, as ordinarily is a præcursor to a Fevor. Neither

is this Species, or fort of Scorvey only circumscribed with the prænumerated Symptoms, but is also applicable to those, whose Articles or Joynts are subject to Crackle upon a sudden Motion.

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s. 2. The Scorvey infesting the Joynts, doth by means of an Afflux of Virulent Humois, not feldom produce groß Tumors and Tubercles, of a fiery purple appearance, and a very painful Sensation, to which is consequent an Immobility of the Articles, and not long after the Skin being fo Canceroully tumefied, as frequently happens about the Joynts of the Fingers, Knuckles, Wrifts, Elbows, Knees, Ancles and Toes, is perforated by an I:horous, Raw, Indigested, Thin, Serous, Livid, and fometimes yellow Sanies or Matter, which Gleeting through a small Orifice, that soon grows Callous, and therefore not being totally and freely Evacuated, occafions the Bone to Cariate, which commonly by Exfoliation, or rather Corrosion, Nature doth expel in little shatter'd mouldering splinters. The impure

impure Nutriment the Conception affumeth in the Womb, rendreth Children more subject to this kind of Scorvey, than others of Riper years, and is vulgarly stiled the Joynt-Evil, and fome will know it by no other Name than the Kings-evil, which properly denotes only Scrophulous Strumatick Kernels and Tumors, though beyond all fcruple are of the same Production with the former, and confequently highly Scorbutick. Neither are a Fistula Lachrymalis, and other malignant Issues near the Angles of the Eyes, or those Epiphora's, or runing of the Eyes, different in Causality and Constitution from either of the fore-mentioned.

§. 3. Another fort of Joynt Scorvey is specified in Rheumatisms, which generally declare themselves by pains of the Joynts, or rather in some by Tortures of the extream Articles, as Wrists, Knuckles, Joynts of the Fingers, Elbows, Shoulders, Hips, Knees, Ancles, Toes, and worst of all, when the impetuous flood of Salin Rheum streams to the Neck, and Back-bone.

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(spina Cervicis & dorss.) Pains of this Nature are so Violent, that for Acuteness are not parallel'd by ordinary Gout-pains. In like manner this sort of Rheumatism doth oft rudely afflict the sides of the Head, decurring from the Bregma, to the upper and lower Mandibles, and Roots of the Teeth, shooting like Darts from one part of the Head to the other, and with so quick a Percussive motion, that Lightning and Blasts seem slow to it.

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ø. 4. Practical Observations declare to us a two-fold Rheumatism, External and Internal. The former is just now pramised: The latter is discovered by Internal, Acute, Fugitive pains, moving Erratically from one Bowel to another, thence poffibly to the Guts, and thence again it may be to the Ambient Skin, or to fome other Bowel, or the Brest; the quality of these Internal pains, is for fuddain and violent Motion, resembling External Rheumatisms; and for Acuteness, forceth the Patient to scriech out, lamenting his pain pain, now in one place, præsently after in another, and suddenly again in another, to no fmall Amazement of his Visiters; since for a small interval being free from pain, feeling himself very well, and entertaining his Friends with Discourse, on a suddain a shooting pain shall take him, and alter the Scene to a contrary Disposition. Internal Rheumatisms are generally of a tædious continuation, though the pains are far more brisk at one time than another, and sometimes do make a Truce with the Patient for a few Dayes or fometimes Weeks, but in the interim detain him in a neuter Estate, which can be determined neither well nor ill, but weak; and thus I have heard of feveral, whose Recovery was scarce accomplisht in several Years; but that might partly be imputed to the ill address of the Physician, being unskil'd in managing that Disease.

§. 5. Among divers Joynt-Scorbuticks, it hath been Remarked, their Bones have been very Frangible, that upon very small occasions, they have had the misfortune of breaking their

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Legs, Arms, Bones of the Hand, and Fingers; but before this can arrive. another Symptom doth ever præcede, namely, a Cracking and Noise of the Joynts, when they are moved. It argues him much a stranger to Practice and Experience, that never observed an Arthritick or Gouty-Scorvey, being fuch a fort of Counter-natural affection, as besets the parts near the Joynts with Corrofive Salin Ichors, and through them attaques them with very Lacerative and Terebrating pains, and fuch as commonly in the Night season Duplicate their Fury. this Disease, as it's Genuine distinction from other Gouts, would certainly very much conduce to the Solacement of the Patient, and his compleat Recovery; so it would no less add to the Reputation of the Phylician, and therefore shall in their places amplifie upon it's Description, Causes, Signs and Cure.

§. 6. Two Bones being tied together, that place where they meet is properly termed the Joynt, from being joyned together, or Juncture, or Articulation. Physicians also stile it

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an Article, but improperly, the word Articulus importing a Diminutive of Artus, Latiniz'd from apros, a Member. Moreover, Bones that are Diarthrotically joyned, are fastened together, besides particular Ligaments, by a common Ligament or Band growing usually from the lower part of the Apophyse of one Bone, and inserted into the upper part of the Apophyse of the other Bone. This common Ligament or Band is in point of substance tough, thick, dense and extensive, and by reason of its close Compacture, and immediate Adhæsion and Circumvesture, doth refuse pasfage to all Arthritick humours, whence may be Deduced, the Gout is not properly to be termed a Joynt-disease; whereunto this Instance contributes an unquæstionable Evidence, that the Internal parts of the Joynt being Cartilaginous, and the Ambient parts Ligaments, are both Insensible and Incapable of Sensation: So that we must conclude the Universal Sentiment upon this particular a vulgar Error, growing from an Inadvertency and blind Ignorance in Anatomy. 5. 7. We

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6. 7. We are therefore to state the Parts nearest adjacent (above or below) to the Joynt, the Seat of the Gout, which by reason of the Termination of the Tendons, and Circumvesture of the Periostium, are exquisitely Sensible, and exposed to the greatest Tortures.

s. 8. The Joynts that are most commonly haunted by the Gout, are the Hip, where it's called the Sciatica, or Hip-Gout; the Knees, where it's termed the Knee-Gout, or Gonagra; the Feet, which comprehends also the Ancles, and here it's named the Podagra, or Foot-Gout; and the Hands, including also the Wrists, thence called Chiragra, or Hand Gout. Besides these, most other Joynts, as Shoulders, Elbow, and Back and Neck-bones, are sometimes also attacqued by those furious pains. Why these last recited Junctures are not so much exposed to Gout pains, as the former, is, because being wrapt about with fleshy Tendons, and Muscles, receive thence a great affistance of heat and warmth, whereby the temperament of those parts are much comforted, the External cold resisted, and those Saline Acrimonious Ichors soon dissipated.

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The periodical Revolutions of these Arthritick Scorveys, are an Argument to me, they are subject to a Prædominance of both the Lumina ries: For from the Seasons produced by the Suns Peragration, they are Resuscitated Spring and Fall 5 and the Lunar Circuits occasion their appearance, and Return in many Bodies as ordinarily, as the monthly Maladies of Women, scarce any Sex or Age under Twelve or Fourteen, being exempted from the fore-mentioned Arthritick Scorvey; But it's otherwise in the Gout, which ordinarily rather invades the Crazie Bodies of Super-annuated Persons.

In contra-distinction to an Arthritick Scorvey, that's fixt to a part, viz. To the Hip, Knee, or Foot, as hath been just now Praliminated; there is also observed an Arthritis vaga, or Fugitive Arthritick Scorvey; but this being not different from an External Rheumatism, whereof hath been mentioned before, shall supersede any surther Explanation.

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the It will hardly escape the Animadline version of many Perusers, that I have beyond the Sentiment of other Phyficians, reduced the Præternatural affections treated of here in this Chapter, within the Latitude of the Scorvey. Wherefore that I may not deferve a Sinister Censure, I will offer those Arguments, that to me were sufficient Motives, which if to others they feem less persuasive, I need only tell them, I may with as much right range them in the Train of the Scorvey, as Engalen, Solomon Albertus, Wierus, and twenty more have given place to half the known Symtoms of the Difeased Body of Man. in the Lift of Scorbutick Attendants.

> Touching the Infertion of the Scorbutick Lassitude in the first Article. all Authors that have Treated on the scorvey, have granted that Symptom almost so Universal, as to be a Pathog-

nomonick inseparable.

In relation to that of the second Article, most may find difficulty, to Identifie it with the scorvey, fince it's not easie to discern one and the same Disease, to be the same in two or more

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feveral Patients; much less a Disease that's so Various and Multiform, featured with several Shapes and Signatures in several Subjects: Wherefore I must be obliged to a Recital of certain Marks, and received Rules, whereby Authors do either Diversify or Identific Diseases.

Causes of the same Nature and Efficiency, though Univocal, do not alwayes produce the same Effects, and therefore consequently (though two or more Difeases are engendred by the same Efficients, and out of the same Matter) they may be different Diseafes, whence may be objected, that those Joynt-Diseases, though isluing from the same Causes the Scorvey is derived from, it's no Argument they should be termed the Scorvey. By this Affertion, the Peripatetick Maxim feems to be suspected, viz. Fosta cansa, ponitur effectus; ergo posita cansa Scorbutica, ponuntur effectus Scorbutici: And all Diseases that are produced by a Scorbutick cause, must be the Scor-

You must observe the truth of this Theorem doth depend upon certain

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Limitations, namely, a cause to be qualified to produce the same Effects, must be Univocal, and a causa per se; for otherwise (though granted Univocal) its causality may be per accidens. Depravated, and Occasioned to an Aberrancy by other causes: For instance in the Scorvey, imagine it's Production from a corrupt Melancholy; that may Stagnate in the Spleen, which being supposed in two several Bodies; in the one possibly it may constitute Symptoms, that are commonly Concomitants of the Scorvey 3 in the other, because there may be a mixture of Vitiated Choler, or of a Serum affected with an ill Quality, or a great Infirmity of some Entrail; the aforesaid supposed Scorbutick cause shall be so Obtused, Altered, or Indued with a different Efficiency, that the Diseases so produced, shall be no Scorvey, but some other Counter-na-This may also very tural affection. properly be exemplified in Coelestial Caules, among which conceive a Planet in such a Sign, and such a Degree, by his influence to produce certain Effects, upon any supposed Sublunary body

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body; at its return to the same Signiand Degree, possibly it shall not be a cause of the same Effects, because through the Radiations of other Firmamentary lights, it's influence shall be directed and limited to another Effect much different. Whence having rendred the Ground of the Variation of Symptoms in the Body of Man obvious, my next affair is to propose a Theorem whereby Diseases are Identified.

Diseases are computed the same, that are constituted by the same Univocal Causes, not aberring further per accidens, than that those symptoms that are effected per se, may in Number and Specification exceed those, that are produced per accidens. Moreover, Diseases by their Intrinsick signification imply Parts primarily affected, whereof they are Diseases; therefore Difeases cannot be Idenfied, unless the parts affected primarily be the same; which we must now explain to be the same in the scorver, and in the fount-Evil, and Gout-Scor. None vary from this Opinion, that the parts Primarily and Originalgn be

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ly affected in the scorvey, are all the chief parts of the Inferior Cavity, that appertain to the Natural Faculty, whose office is to Confect the Chyle, Elaborate and Depurate the Blood, which are the Stomack, Spleen and Liver.

The Chyle in those, that are afflided with the Gont and Joynt-Evil, receiving a Malign Tincture and Impression, from an ill qualified Dissolvent, is a prægnant Evidence, the Stomack is a part affected; and the aforesaid Chyle upon its arrival within the Spleen and Liver, induing a quality of a Malignanter efficacy, exprefly proves, both those Entrails aqually parts affected, and confequently the parts radically or primarily affected are the same.

Neither can I discern any difference in the Caufes of both, residing in a corrupt Salt, fixt or volatil. must then be the difference of symptoms, that creates suspicion of the Diversity between these Joynt-Difcor eases, and the scorvey, which as was ion, intimated before, may be remarked nal in all Univerfal Discases, varying in

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two or more Bodies, in several symptoms, and yet are deemed the same Disease: A continual acute Feaver (which I call an Universal Distemper, because it's symptoms are Universal, and disturb all the parts of the Body in their feveral Functions) in one is attended with Vomitings, in the other with a Looseness, in a third with neither; which nevertheless, are known and determinated Concomitants of a continual acute Feaver in all. In this Labyrinth, the Position stated in the beginning of this Paragraph, conducts me to an Expedient of surpasfing the difficulty, viz. The fymptoms that Identifie Diseases, do immediate ly, and per se, emanate from them, in or near the parts affected: For instance, if the Heart be seized with a Disease, the Pulsation doth generally express it, being a symptom that immediately confecutes the Distemper in the part affected, which is the Heart; the like may be observed in These must be such as all Diseases. properly are terms Pathognomonick, and by Industry, and fræquent Experience, may be discerned in most Diftempers,

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stempers, though symptoms that are occasioned per accidens are Infinite, and common to many Diseases. Now to our Affair; In the recited Joynt-Difeases, and Gout-Scorvey, the radical symptoms are an ill Confection of the Chyle, or a vitiated Elaboration or Depuration of the Chyme; a propagation of Malign Seminaries, in the Bowels and Blood, that renders Diseases contagious, Hæreditary, and most Obstinate; these being likewise fymptoms in the scorvey, I judge I have justly Identified them; but that will more amply appear in my subsequent Discourse. Add hereunto, that in Identified Diseases, the Procatartick causes are the same, which in these various kinds of the Scorvey, is verified in a Salin Air and Diet, whence both the Internal, Antecedent and Continent causes afterwards take their Original, which also for a certain space continue the same, until that by a continuated morbifick Action and Calcination, they pass into a contrary Nature, from an Acid, to an Alcali, as among Chymical processes, appears in Acid Tartar, which by Calcination

on makes a Transition into an Alcalious Salt of Tartar; nevertheless as the Acid Salt of Tartar, and the Alcalious Salt of Tartar, though contrary, do both retain the same name of Salt of Tartar ; fo an Acid Scorve, and an Alcalious Scorvey, retain the same Denomination of a scorvey, or are Identified in the same Name. Before I limit this Chapter, I must propole an Argument of a greater Consequence, namely, That those Joynt. Difeases and Gout-Scorvey, are only to be removed by an Antiscorbutick course; but not such as is directed by the præscriptions of the Vulgar, who are as blind in these Distempers, as they commonly are in Feavers and Small-Pox.

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Of the Causes of the Mouth-Scorvey.

I. A scrutiny into some Procatartick and occasional Causes of the Mouth-Scorvey. 2. The Internal canse of the Mouth-Scorvey proved. 3. The praparation of Mercury Sublimate corrolive examined. 4. The Spittle is Imbued with several sorts of Salts at several Scasons. 5. That it is not every Acid is the cause of the Sorvey. 6. Of Spirit of Salt, Nitre, Vitriol, and Tartar. 7. That Some Acids are good Remedies against the Scorvey. 8. Chymical Theorems. 9. Turbith Mineral examined. 10. How a Salivation is Occasioned. II. Observations won the Dissection of the stomach. 12. Why one is apt to Spit after the taking of any ungrateful Medicine. 13. Animadversions upon the Ferment of the Stomach. 14. The Succus Pancreaticus

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aticus Silvii rejected. 15. That the Succus Pancreaticus doth never Secundum Naturam flow to the Stomack; that naturally it is not Acid, but Sweet. 16. Why Nature bath endued the Pancreatick juice, with a lentour and sweetness. 17. Proof that it is sweet. 18. Why the Stomack is provided with so great a number of Lymphatick Channels. The manner of the Concoction in the Stomack. 19. That the Digestive faculty is most potent about the Region of the Ventricle. 20. The manner of Separation of the Concolled from the crude Chyle, with several Remarks upon the Dissolvent, or Mock-ferment of the Stomack. 21. The manner how Liquors turn Acid.

By a Scrutiny into some Procatartick and Occasional Causes, we may possibly be Conducted into a Path, of discovering the Immediate and Continent causality of the Mouth-Scorvey; and therefore converting our Observation on the Effects of spirit of Vitriol, Nitre, Vinegar, &c. We shall the

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shall on the estimate of the use of any of them, mixt with Powders into Dentifrice, or Instilled into a Liquor for a Collution of the Mouth, award, they are as offensive as any Internal cause, by Rotting and Blacking the Teeth, raising Pain and Swelling in the Gums, and moving a thin Sputation.

5. 2. Mercury externally by Confriction forced into the Pores, or Internally taken in the form of a subdued Sublimate, or Pracipitate, soon Ravages the Mouth, exactly like, a Scorbutick Cause, since it forces up a Humour from within, that fwells, Fiffures, Ulcers, Pains the Gums and the Mouth, Loofeneth and Rots the Teeth, Salivates, and occafions a fowl stink of Breath; all which fymptoms, if we can demonstrate to take their rise from Effluviums issuing from an Acid Salt, mercurial præparations have all their dependance on, and which within their most intime and centrical Particles, do contain a most Subtile Vibrating and Volatil Salt, will refult into a præmis, whence no In-

Ingenious Reader, but with me, will conclude a Month-Scorvey to be Engendred by a corrupt Acid Salt rendred fluid, and a Volatil Salt converted into corrofive, inordinate in motion, and united with a Fuliginous Salt. That you may be convinced of this Hypothetick proposition, take Inspection into the various processes of Mercurial Elaborations, where you find Mercury fixt (but very imperfectly) into Pracipitates, Sublimates, Spirits, and Salts, of divers Shapes and Colours, viz. Into White, Red and Yellow Pracipitates, by Aqua Fortis, Spir. Nitr. Spir. Sal. Ol. Vitr. all which, take notice, are vehemently Acid; and thence conceive, that the Volatil Salt, or Fugitive Spirits, latent in Mercury, are only to be tied by an acid Vinculum. If upon this you design to reduce Mercury (whether Pracipitate, or Sublimate, or any other Præparation) to its former shape of Quick-silver, it's easily attained, by freeing it from that acid Vinculum, in mixing it with a proportion of Calx Viv. Gypsum, Soap-ashes, Sal Tartari,&c. and driving it through

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a Retort, whereunto it readily yields by means of those Alcalized, or fiery fixt Salts, mortifying the Acid. So that by the Rule of Contraries, if an Alcali reduces Mercury, the Consequence is, it was detained by an Acid.

s. 3. The Sequel is farther illustrated in the præparation of Sublimate Corrofive, the Quick-filver being first grinded with Salt Peter, Vitriol, or Common Salt, wherein being latent a most potent Acid (as appears by their Reverberatory distillations) doth foon invade and penetrate the body of the Mercury, and thereupon encountring with its most subtil and fugitive Minims, arrests, and in some degree doth fix them, qualifying their Volatil levity with it's ponderous Acid, and therein it's discernably asfifted by affusing a few drops of distilled Vinegar, or other Acid Spirit, whilft the Salts and Mercury are grinding together. Upon this Mixture, that Salin Lixivious taste of the Salts, before their Coalescence with the Mercury, is changed into a pontick Acid

Acid taste. And because Therebenthine is so pragnant of an Acid spirit (as the Rectified spirit thereof to the Tongue, is a palpable proof) it's therefore the chief resine, that is capable of subduing Mercury, whereunto it's Lentour and Glutinous faculty doth very much contribute.

6. 4. Hence let us make a nearer approach, to what is a Branch of my Subject, and necessarily conclude, that Spittle (Saliva) is endued with a Turgency of Acid Particles, far more potent, than sharp distilled Vinegar, because it's so effectual in Amortizing or Fixing Quick-silver, which may likewise be performed by the Acid juice of Limons: But observe likewise, that spittle is rendred Acid, only towards the latter end of the Concochion of the stomack, from the Acour of the Dissolvent Liquour, and therefore the Morning-fasting-spittle is recommended for the purpose above men-Moreover, take this Retioned. mark with you, That the spittle is imbued at feveral feafons with feveral salts; fometimes with Volatil, other

ther times with Lixivial salts, sometimes with Acid, and sometimes with mixt salts, according to the contents in the Capacity of the stomack, and about it's tunics; so that all sorts of spittle is not proper for the Amorti-

zing of Mercury.

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s. 5. Now upon Compute of the whole matter, though your Reason may reap so much satisfaction, as to believe potent Acids, the fole subduers of Mercury, and capable of arresting its Fugitive particles; yet we must not be so facil, as to concede all Acids pernicious in the same Latitude with Mercury coagulated, of acting upon Liquours of the Body, and rendring them Scorbutick aggresiors; for the greater number of Acids, Adminiftred with rules of Caution and Prudence, obtaining a virtue of Repelling and Suppressing some kind of Scorbutick fymptoms, bear an evident Testimony of the contrary.

6.6. Spirit of salt Marin (I mean not the Gracian Impostor's, but) dexteroully prapared, according to the rules of the Spaggrick Art, hath acquired a good Character to some Physicians,

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for præscribing it to their Scorbutick Patients: And I were to blame for my filence, should I prætermit the great Effects of spirit of Nitre, Philosophically purged from its Arlenical fumes, not a few Scorbuticks owing their Recovery to this Acid from very obstinate accidents, that were true issues of that Disease. Neither can the performance of these præcited inciding deoppilative Acids, be justly called into doubt, fince from the Spirit of Vitriol, and Vinegar, (used in the Condiment of Capers, Samphire, &c.) though of a styptick Energy, advantage hath been received in the Cure of Scorbuticks and spleneticks. If then these Corroding and Cerberous Acids merit a reception fo just among the Apollinean Faculty, certainly, those that are acquainted with the true Process of the Acid spirit of Tartar, being fo Penetrative, Attenuating, Digestive, Ecphractick, and yet of an amicable Acour, can prætend to a greater fecret to Eradicate By the way, obthe scorvey. ferve, It is not against an Acid Scorvey they are such excellent Remedies, but against

against a Lixivial one, which in the progress of this Discourse will be far-

ther Explained to you.

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5. 7. From this Præcurrent Illustration, we may be affored in Opinion, that Acids by their native Qualification, or Corrolive to some Scorbutick bodies, and therefore it must be through a præternatural Affection, they are enforced to constitute the Principles of the fore-cited Malady. On this occasion, it will not be Diffonant, to Analyse Mercury (as it is reduced to a Pracipitate, or Sublimate, or other Coagulated body, by acid Salts or Spirits) into its most Intime Syntheticks, whence the Genuine Procreatives of the Scorvey will more distinctly Emerge.

§. 8. In order to the Unravelling of this fo close knitted Mineral, I must first Repræsent to you these by me received Hermetick Theorems.

1. All Alcalies are contrary to Acids, and consequently do extinguish them, or if encountring in a lesser proportion only prestract them. Assure the Alcalized Liquor of Tartar, to the Acid Oyl of Vitriol, in their just proportion.

tions, the Production will be a Salt of Tartar, much præfracted in its Alcalized faculty, and a Salt of Vitriol much obtused in its Acidity; but if the Alcaly of Tartar be superjour in measure to the Acid of Vitriol, then it doth reduce the Vitriol to a Caput Mortuum, and intirely extinguish its Acidity.

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2. All Volatil Salts are fixed by Acids. The Volatil salts of Hartsborn, or Amber, being Irrorated with Spirit of Salt, is soon laid in sleep,

and loses its Wings.

3. There is no Alcali, but in its intime and centrical Particles, contains a most Acid, Corroding, and Perforating Salt. Likewise, There is no Acid Salt, or Spirit, but in its centrick Particles is lodged a most Igneous Alcaly. Within the centrick of the Acid Oyl of Vitriol, there is an Igneous and Caustick alt.

4. Volatil Salt is nothing but the fixt Salt of any Body, Volatilized by the admixture of Sulphurous Particles.

5. The Purgative, or Vomitive, or other active faculty of Bodies, doth Emanate from their Volatil Salts; either

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From the Application of these to any particular Præparation, we are to expect, what now we Dive into. To this purpose, let our ordinary Turbith Mineral, as it is in the London Pharmacopea Transcribed by our Phyficians out of Unzerus, who Records the Invention of it to Adam Bodenstein, be our Subject, as best known to my Perusers, both for its Use and Process; though possibly this remarque may escape their knowledge; that whereas Directions are given in the Dispensatory, for affuling an Anatick proportion of dephlem'd Oyl of Vitriol to Mercury, purged from its plumbeous Recrements, which Evaporated, leaves a white tesidence in the bottom of the Bolthead, to be sweet washt into a yellow Powder; the præscription of the fore-mentioned Bodenstein, requires an addition of Salt of Vitriol, in proportion of half the weight to the Oyl of Vitriol, which renders the Refult of the Elaboration less Churlish; and more effectual.

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Your view on this discerns the most compact body of Mercury, dissolved by the Acid of Vitriol, its Fugitive fpirits detained, or Volatil falt partly fixed by its Pontick Liquor, or Acid Salt, and through their mutual Re-action fo Elaborated, that in this Conjunct state have assumed neuter Faculties, not to be deprehended in either Singular: For the one is so eminent in the Adstrictive, that in Hamorrhages both Internal and External it performs, what other Restringents or Emplasticks fail in. The other, viz. Quick-silver aims at no other Effects, than its weight or gravity is capable to produce; but upon their Coalition, they remove most obstinate Diseases by Vomit, Stool, Urine, Sweat, and Salivation.

From the Inference of the first and fecond Spagyrick Theorems, you must be convinced, it is the Volatil Salt of Mercury, and no other Constitutive principle, is here Coagulated, because performed by its opposite, a fixing Acid, and thereby somewhat præstracted; for through the abatement of its Vibrating and Pene

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trating Faculty, it's experienced not fo capable, to Amalgamate the nobler Metals into a Calx. From the repercustive particles of the said Mercurial Volatil Salt, the Acid of Vitriol is not only obtused, but rendred a disfolvent corruptive Acid, whereas naturally it's known a great Præferver from putrefaction and dissolution. And if you give credit to the fifth Axiom, which long Experience hath establisht firm and indubious among most Practicians; you must affert, not only the Vomitive and Purgative faculties to be issues of the Mercurial Volatil Salt, but also its Salivative quality; which explain'd in manner following, feems to me to be evident enough, how it exerts its power.

f. 10. Turbith Mineral, or other crude Mercurial prayaration, is no fooner swallowed down into the Stomack, but through its most subtil volatil Salt, doth attaque the Salts, that are floating in the Liquor, the capacity of the Stomack is ever furnisht with more or less, (for an absolute driness, would certainly be attended with

with a most dangerous Hiccoch, or Convulsion of the Stomack) which in some proportion converting into Particles of its own Nature, doth foon occasion a Turgency in the Liquor of the Stomack, (being an Effect of the Contrariety and Combat between the Mercurial Volatil Salt. and the Acid.) And the Lymph contained in the Lymphaticks of the Stomack, which Turgency continuated to the Ductus Salivales under the Tongue, and the others that terminate about the Cheeks and Gums, causeth an overflowing of the forefaid Lymph or Serum, where it's called Spittle or Saliva, quasi sal Liquor, cen Salfus Liquor, or Salt Spittle, for such it is. Here we must make a Digression to a succinct Explanation of the Fabrick, and Liquor of the Stomack, discovering the Nature of it, whence it Sourceth, and through what Creeks and Inosculations it makes its Irruption, and thence it will prove more facil, by a further pursuit to render the manner of Salivation Obvious to the meanest Capacity. 5. 11. ExOF

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6. 11. Experiment in this Case makes the strongest Plea, and therefore I will offer you my Observation, Upon the Diffection of a Dog, fed with falt Meat intermixt with Sublimate Corrofive, and thereupon most thirstily Lapping a great quantity of Water, wherein Peafe had been boyled, and immediately strangled. I was chiefly intentive on a strict view and research of the Stomack, in whose External Surface or Tunic, being a process of the Peritonaum, the Coeliac Arteries appeared very tumid and full, and eyery where discernable to the Eye, accompanied with Lymphatick Vessels, that were also no less Turgid, and supported by a number of small Glanduls, which at other times remain hidden, because there is not so great a Confluence of Lymphatick matter, to swell them The Crusta carnosa and the Interior Tunic, separable in a Dog from one another, through this superfluous Irrigation were Fungous, and upon a pressure the Lympha exstilled at little Pores or Orifices; which probably may be conjectured the extremities of of the Inosculations of the Lymphatick Vessels. The dispersions of the Branches and Terminations of the foresaid Coeliac Artery, through the middle and inward Tunic, were extreamly distended with Humors, and the Lymphatics every where throughout both Tunics, no less visibly burden'd with moisture, and upon a diligent observe of their track, were found to ascend the Oesophagus, and to perforate the great Glanduls, and thence to the Tonsils, the Ranine, and other Glanduls of the Mouth.

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s. 12. Before I detected the Expatiation of these Lymphatick Channels, could not out of any Author supply my self with the Reason, why upon the assuming of any ungrateful Medicine, Purgative or Alterative, after a small interval, the Mouth doth salivate a thin pellucid serum; which from the præmised Discourse seems very evident: For upon the Combat between the Dissolvent Liquor (or that which is improperly called the Ferment) and the Volatil Particles of the Medicine, happens a Turgency, which

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which by continuation being likewise Impressed upon the Lymphaticks of the Tunics of the Ventricle, and Oesophagus, must necessarily occasion an overflowing at the Termination of the Dustus Salivales, both of those under the Tongue, and the other on the sides of the Gums.

6. 13. By the way, I must make one observe, how unsuccessful Authors have been, in Imposing the name of Ferment upon the Acid juice of the Stomack, and describing its Source, or Original. The word Ferment, (as you may read more at large, in the first part of my Treatise, De Febribus, Cap. V.) is Univerfally taken to be that, which Clarifies and Exalts any compound Liquor, that's newly made by Decoction, Infusion, Expression, or otherwise, to a greater Perfection, by means of a Simpering (for Fermentum takes its Derivation a Fremendo, and not Fervendo) or a small Ebullition, whereby the Liquor is Subtiliated or Attenuated, and the Heterogeneous bodies separated into a Froth and Lees. This Signification can

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can in no manner be applied to the foresaid Acid juice, performing only the Office of Dissolving the Victual received in the Stomack, and Coaquating it into a Cream, or Chyle; a word Originated from 2000 to Dif folve: Wherefore there being only a Dissolution of what's Ingested, or a Production of Chyle attained by means of this Diffolvent Acid, and no Depuration or Exaltation; it dot more properly require the name of a Dissolvent Liquor, than of a Ferment, and consequently there is no Fermen tation in the Stomach, but only 4 Dissolution, and Conquation; whence may be remarqued, how Truth is of over-ruled by an impetuous Current of Opiniaters.

§. 14. The fource whence this A-cid juice should stream, was for a long time afferted the Spleen, effusing through the Vas breve, into the Stomack, which the Curiosity of Anatomists observing not to be Pervious at its Termination, concluded there must be some other passage, through which the said Juice was con-

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conveighed; but none durst præsume to affign it, until sylvius, the late Physick-Professor of Leyden, did attempt to prove this Acid juice to be engendred in the Pancreas, and therefore named it Succus Pancreations. whence through the Ductus Virsungianus was by Regurgitation forced up into the Stomack. This Conception of Succus Pancreaticus hath fo fondly been Nursed by him, that in his Idea nova Prax. Medic. he doth Impeach it, to be the Productor of most Diseases. Much less than a Demonstration, for scarce a probability of this Acid Pancreatic Succus hath been offer'd by him, which so much Disgusted Monsieur le Vasseur, a Physician Regent of the Faculty of Paris, that he undertook to Demolish that Principle in a small tract written in Latine, wherein he doth fiercely Impugnate his Triumvirate of Morbifick Causes, (as he stiles it in his own Ideom) though without obtaining any Advantage on his Adversary, the one being no more Auspicious in Refelling the Acid Pancreatic juice, than the other in afferting it. 5. 15. In

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6. 15. In the first place, I find no N Difficulty in maintaining, that the Succus Pancreaticus is at no time secundum Naturam propelled into the Stomack; for the Grand Channel. which is the Ductus Vir Sungianus, terminating near the Confines of the Duodenum, and the Ilion, and Difburdening the superfluous Juice into it, is naturally according to the Peristaltick motion, being performed by the Contraction of the Circular Fibres, expelled and carried downwards; and if at any time it is forced into the Stomack, that must needs happen by means of the Inversion of the Peristaltic motion (namely, the Circular Fibres contracting from below upwards) which undoubtedly is Convulfive, being occasioned through a Stimulation of the faid Juice, Vitiated or Obstructed, and is absolutely Contra Naturam. But if according to the Tenour of this Discourse, the Pancreatic Juice is Regurgitated into the Stomack; is so far from Pleasing or Delighting it, through that amicable Acour, that's Fictitiously attributed to it, that it occasions a maukish Nauthe

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no Nauseousness and Salivation, which Re vera are effects of a sweetish thick moistening Water, contrary to what the flows from the Causality of an Acid Humour; and nothing is observed, to have a greater share, in dissolving the Tone of the Stomack, and contributing Matter to those Slimy Ropy Crudities, plaistered to the fides of the Stomack, than this Incrassated Pancreatic juice. So that it must be belieyed, that this kind of Fallacious Doctrine is by those, that for their feeming parts are placed in the School Chairs, violently Imposed upon their Scholars, who Imbibing this in their Infant Studies, like Principles of Religion, æsteem it a great Crime, ever to doubt of what their Masters infused into them.

> Quo semel est imbuta recens servabit odorem, Testa din, &c.

> 5. 16. In its natural Qualification, I am affured, the Pancreatic juice partakes of no Acidity, proof thereof shall be offered you below.

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Pancreas to me, feems to be the Sinch of the Lymphatick Vessels, whithe they Post the superfluous Lymph, that hath done its Task, to be Evacuated as an Excrement. But here the Wifdom of Nature is very remarkable, in Inserting the Ductus Pancreaticm, or Virsungianus into the Duodenum, neighbouring so near to the Ductu Cholidochus; the one namely the Cholidochus, ferving the Gall Bladder, (cyftis bilis) as a Conduit to Difgourge the overflowing Choler into the Guts, which otherwise through its extream Amaritude, and Lixivious corrofive Salt, being rendered fo Superlatively sharp and detergent, would offer violence to the most sensible small Guts, and foon gnaw off its Internal Tunic, were it not that meeting with this Sweetish, Thick, Moistening Water, Extilling from the Ductus Pancreaticus, it was foon allayed, and qualified with its Lenitive and Dulcifying Len-A further use Nature hath Destined it to, is to Moisten, and render the Internal Tunic of the Guts Glib and Slippery, for to Promote, and Facilitate the descent of Excrements, being ing moreover the material Cause of that Pituita, or Fleam, which is ever found in the small Guts, in the state of Health. Neither do I give the least Credit to those Capricious Opinions, the fore named Sylvius hath Superstructed upon so Erroneous a Fundamental, as this Acid Pancreatic juice, viz.

I. That there daily happens a mild Effervescency between the Bilis and that Juice, which I am consident a Healthful Person is altogether Infensible of, unless Indulging his Apetite in a large Rouse of Strong Li-

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2. That through a Vitiate Acidity of this Juice, are occasioned Dysenteries, Gripes, Vomitings, and what not; read Chap. V. Lib. Pracitat.

3. That all Diseases depend on the Præternatural disposition of his Triumviral Humour: To wit, Fleam, Choler, and this Pancreatic juice; but for all this, not one syllable of Proof, rather introducing a Thousand Absurdities on the Neck of another.

6. 17. I am now Arrived, where E

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am to Illustrate to you, the Pancreatic juice is so far remote from being Acid, that it's perfectly sweet. It's a Concession granted by all, That Moisture is more apt to turn Acid in an Extinct Body, than Living; as appears in Veal, which being kept too long, expires an acid steam. If so, then,

1. The Pancreatic juice, obtaining an Acidity in a Living Body, must necessarily assume a greater Acidity in a Body Expired; which is observed contrary, for the Juice that is expressed out of the Pancreas of a killed Cass, hath a clammy sweet taste, and certainly is endued with a far sweeter savour, whilst it contains a proportion of Volatil Salt within the Channels of a Living Body.

2. The Pancreas it self Raw or Boyl'd, pleases the Palate with a sweet taste, beyond any other sort of Flesh, which qualification can not be in a Body that engenders an Acid Juice, or daily is Irrigated with it. Propter quod unum quodque tale est, illud magis tale

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3. Lymphatick Vessels about the Stomack, and those of the Pancreas, both

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both Deriving from the Spleen, and having a Communication and Commerce in the same Contents, namely Juices or Lymphs, It is not to be doubted, but both Juices of the Stomachick and the Pancreatick Lymphæducts, participate of the same Nature. and Taste, which being deprehended fweet in the Stomack Lymphæducts, can be no other in the Pancreatick. Medicines that Create some Labour to the Stomack, and move a Turgency in the Lymphatics of the Stomack, occasion an overflowing of the Duttus Salivales, or a Salivation of that very Lymph, or Juice, that was floating about the Ventricle, which is commonly pronounced by all, to have a Sweetish or Subdulce taste in the Mouth, and doubles, that of the Pancreas is not different. The manner how is expressed before.

4. An Argument may be Deduced a causa; The Lymph of the Stomachick and Pancreatick Vessels is Replenisht, and well Saturated with Volatil Salt, whose Nature is Experienced, to Expel and Extinguish all Acidity, and so consequently the fore-said

faid Lymph must prove sweet, and in no wise Acid.

5. 18. The Lymphatick Vessels being in great numbers directed from the Spleen to the Stomack, to Transport thither a proportion of Lymph that in the Percolation of the Blood, was attracted and affuged into the faid Lymphatick Vessels, being thorowly Saturated with Volatil Salt transported through the Pores of the Stomachick Nerves, and Cœliac Arteries, is Effused into the Stomack at such times when it hath received Victuals to Digeft; for thereupon the Arterial Blood, and Vital Spirits are moved and attracted, and a heat Excited; whereby the Lymph being Attenuated, rendered Turgid and the Veffels Tumefied, is forced into the Stomack in that quantity, as doth sufficiently Relax the faid Lymphæducts. This Lymph by means of the faid Volatil Salt, is fo Subtil, Penetrating, Attenuating, and Rarefying, that Uniting with the Volatil Particles of the Liquor ingested, and that which by Mastication of the Victuals lies Mor-

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Perfused and Dissolved, doth soon disunite and dissolve the Vinculum of the folid Victuals, and being thorowly mixed with the Liquid, is speedily reduced into a Cream or Chyle. Whilft this Attenuation and Solution is performing, there is a Turgency occasioned in the Capacity of the Stomack, which streightning the Arteries, that Amplexe the Stomack, do through Renix duplicate their Pulsation in Fræquency and fortitude, (as appears upon feeling the Pulse of the Carp after Dinner or Supper) whereby the Heat is much intended, and Copious Effumations of Vital Spirits or Arterial Volatil Salt, immitted into the faid Capacity, which do most vigorously affift the Dissolution and Concoction of the Stomack.

6. 19. That the Concoctive Faculty is most Active, and Potent in the Fund, or bottom of the Stomack, hath been hitherto the blind Opinion of most Anatomists, upon Surmisal, that the Acid Ferment, which bears a great part in the Concoction, through its Gravity and Pracip tative quality,

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is chiefly floating about the lower Region of the Ventricle: But if we fuppole, the Digestive Operation to be performed principally, by virtue of the Volatil Salt contained in the Pores of the Lymph, being of a Subliming and Ascending Nature; the Stomack by reason of those greater Nerves of the Sixth pair, and Fibres of the greatest strength, Circumvesting the upper part of the Stomach to be most Robust, and the Heat and Dissolvent steems to be Reslected, Collected, and Augmented there; it must be confessed, that the Digestive Faculty is most Energic about the upper Region of the Ventricle. The next Particular in order to be Explain'd, is, when and how the Juice that is Concocted, is separated from that, which is not yet perfectly digefred, and afterwards Transmitted through the Pylorus, or Inferior Orifice of the Stomack, into the fmall Guts. That the whole content of Victuals and Drink is not fo long retain'd in the Stomack, until the entire Mass be totally Digested, is Experinced by alk, that observe their Stomacks after Meals,

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Meals, to grow gradually Lighter and less distended, and their Appetites likewife to return Gradually and fo confequently the upper part of the Chyle being first Concocted, and swiming a-top like a Cream, is first præpared, and ready to be Effused thence in this manner: The Chyle being thorowly perfuled with a great proportion of Volatil salt, is so Rarefied and Tumid, that it now exceeds its bounds, and by affistance of that Aculeous quality of the aforesaid Salin Particles, stimulates the Oblique Fibres to Expulsion, and still as in the same manner the Stomack is gradually disburdened, so the Fibres gradually Contract and Corrugate the Tunics into a smaller Comprehension, until the whole be Transmitted, and the Stomack reduced to a scarce greater Circumscription than a Fist. Several particulars here are of Remarque.

The first, That the Finer and most Coæquate matter is Extermined first, and that which is somewhat of a groffer Pulment next, until at last the coursest and Fæculent part succeeds to be wrought upon, which being Tough,

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Tenacious and Glutinous, requires an Acid Diffolvent, by whose force, together with the Continuation of the heat, Animal and Vital Spirits, or Vivid Volatil Salt fuming out through the Pores of the Nerves and Arteries, the matter is more potently Incided, Comminuted and Dissolved, and the faid Acid Diffolvent, or Mock-Ferment, obtaining a Pontique or A. micable aftringent Acidity, is qualified thereby, to præcipitate the groß remainder of the Chyle into the Duodenum, and afterwards to fortifie, and Corroborate the distended and defatigated Fibres of the Stomack by a gentle Astriction.

The Second, That the Ventricle being full, the Pylorus or lower Orifice is Erected high, to prævent the too fudden Expulsion of the Chyle, and therefore no part but what is uppermost, and rendred Turgid, by being throughly Imbued with Volatil salt, can be Transmitted; but as the Chyle Ebbs lower, so the Pylorus seems likewise to Decline downwards by the Contraction of the Fund of the Stomack, to give an easier passage to the

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A New Discovery of the Scorvey.

weighty and droffy remainder of the fore said Chyle, to which, should the Pylorus continue Mounted, at so great a distance from the Inferiour Region of the Ventricle, the Trajection or Expulsion would prove extream difficult.

The third is, That the last remainder in the Stomack, upon every compleat Concoction, is nothing but Drofs, among some Physicians called the scoria, which being Commixt with the Acid Mock-Ferment, is pracipitated into the Duodenum, where by reason of the Acrimony of the Commixt Acid, vellicates the faid Gut, at the Terminations of the Cholidochus; and the Ductus Pancreaticus, Irritating the former to Difburden its Cargo of Choler, and the latter its Incrassated Glutinous Lymph, of which three only the Excrements of the Guts do consist, viz. From the Dross or scoria of the Stomack, they Derive their Matter and Confistency, from the Pancreatic Lymph their Clamminess and Cohæsion, and from the Choler their colour, from the quantity whereof it's more or less Yellow, Red,

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Red, or Luteous, and from the commixture of all their stinck doth Derive.

The fourth Observe is this, That whilst the Body is seated in a Healthful state, the sweet Cream of the Chyle not being irritative, passes the Dnodenum and the other small Guts, without being Perturbated, Commixt, or Corrupted with the foresaid Excrementitious Choler, or Pancreatic Lymph, which ever as I said before, are disburdened at last, separately from the Alimentary Juices.

The fifth Discovers an Error of Opinion of some of the Learned in Phyfick, who strive to maintain, that it is the Red Dregs of the Blood, is Evacuated through the Ductus Pancreaticus, which they name Gloces Sanguinis, not being unlike the Dregs of Red-Wine, which partly they fay confifts of thick Melancholy, that hath perform'd its Task, and partly of the Red of the Blood, that was too long Retain'd, and somewhat Adust. Of this Opinion the Learned Profesior Vander Linden, of Famous Memory, was the Author, and also did (among the

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the rest of his Disciples) Instil it into me many Years past, but having only his a of for it, and upon Anatomical search into several Subjects, not finding any Red Dreg or Lee, or any thing else, except the oft fore-mentioned thick Pancreatick Lymph, have justly deserted that Tenet.

The fixth puts me in mind of the Præparation, all folid Victuals requires, namely of being Masticated, Ground small and even by the Teeth, and withal Perfused with Spittle, which almost confisting of the fame Principles and Volatil Salt, the Diffolvent Lymph of the Stomack doth, is, a fingular affistent to the Concoctive part. That the Spittle is so prægnant of Volatil salt, is clearly Evinced from it's Dissolutive virtue, Softening and Discussing almost any Pustle in less time, than any Medicine whatfoever; and supposing the Spittle to be so Turgid of Volatil Salt, much more the Dissolvent Lymph of the Stomack.

The feventh Annotation is, That during three fourth parts of the time

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of Concoction, the Dissolvent Juice is no wife Acid, but on the contrary partakes of an Igneous Alcalized volatil Nature, abounding with Penetrative, Diffolutive and Pungitive, or Mordicant Effluviums and Steems, as may be observed by those, that occasionally Belching at the mid-time of Concoction, or before, or somewhat after, are so vehemently Stung, Bitten, and Inflamed in their Throat, and along the Oefophagus, that it is not in the power of Brandy, or other Ardent spirits, to imitate those Effects. But the Volatil Salts being together with the Chyle, passed out of the Stomack into the small Guts, the Diffolvent Lymph is left Acid, to accomplish the Digestion of the Gross and Fæculent remainder, which towards the latter part of Digestion, or some fix or eight hours after Meals, in some quicker, in others flower, is upon an Eructation or Belching perceived in the Mouth, not only Sour, but Acid with an Adstriction, not unlike the Acid Spirit of Vitriol.

6.21. To those that are knowing in the

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the Analytick part of the Spagyrick Art, it's very Obvious, that Compound Liquors consist of a Volatil salt, and an Acid Tartar, as plainly may be Demonstrated in Wine, whose Volatil Salt or Spirits being extracted, and dissolved from the Union with the Fixt Particles, through the attraction of the igneous effluviums of the Ambient Air, the Acid Tartar doth immediately appear in the tafte of the remaining Liquor, which then is called Vinegar, or Sour Wine. In the same manner most other Liquors and Decoctions being deferted of their Volatil Salt, by Attraction of the Sun-beams or Ambient Air, do likewise immediately turn sour. Spittle though sweet, when it's egested out of the Mouth, grows Acid, as foon as its Volatil Salt is Exhaled. Upon fo perspicuous an Illustration, I cannot imagine you expect further proof, that the Dissolvent Lymph of the Stomach is not at all Acid, but contrary, as foon as it's effused into the Stomack, it's Subdulce or Sweetish, and continues so until it's Body is Expanded, Pores opened, and it's Vo-

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Volatil Salts and Spirits Extracted to the Circumference, and then it's grown Igneous Colliquative and Mordicant, and at last, the Volatil Salt being partly Evaporated, and partly Attracted into the Vasa Lactea (like Wine changing into Vinegar)turns abfolutely Acid, Inciding and Astrictive, Arguments in greater number, and of no less Evidence, I could here offer to your Consideration, but do prætermit them to avoid the Suspicion of judging my Reader fo Obstinate an Opiniater, as not to be perfectly Convinced of the truth of the Pramises, by what is already proposed, Neither would I have you conclude, that I have Steer'd beyond my Rhomb, in Expatiating into fo Ample a Difcourse of the first Concoction or Chylification; for the true Theory of the Office of the Stomack, and its manner of Operation, is a great Fundamental of the Art of Medicine, the Ignorance whereof (God mend it) among Physicians, is a great occasion of their too great Correspondence with the Sexton and Grave-maker. What Principles, or rather Pranomenon.

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non, an Eminent Physician of the City, had assumed in Informing himfelf with the manner of Production of the Scorvey, and its Causes, I could never apprehend from his Receits; But this is most certain, that a Patient of this Physician, a Person of Quality, and a very near Relation to a Pear of the Realm, for the Benefit of Air, living at Woodford in Effex, had the strength of walking Abroad, made use of Medicine præscribed by him, but within two dayes Chosted. Whether the faid Medicines, fet the Humours a float, or whether our Doctor had been upon the Merry-pin before he Præscribed, was much doubted.

CHAP.

CHAP. VI.

Mouth-Scorvey is an Acid Lymph of the Stomack. How a Salivation is Continuated; the Cause of those Anxieties in a Salivation. 2. The Nature and Kinds of Acids. The Effects of the Acid of Vinegar, Vitriol, Nitre, Salt Marine, Tartar, Antimony, and Sulphur. 3. That there is a Difference in Nature in Acids, and likewise in Alcalies between themselves.

wherein (as hath been hinted before) every Particular doth so exactly resemble the Scorbute, I find the Material Cause is the Liquor of the Stomack, and the Lymph of the Stomachick Lymphæducts, which like a continuated Stream is forced up; but how this Islue of the Mouth is supplied, ought to be further inquired into.

Although many of these Water Rivulets ph

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vulets from the Brain, and other parts of the Head, do Communicate with those, that are terminative within the Mouth, yet it must be received for a Truth, that the great Source and Spring is about the Stomack, and the Pancreatick Lymphaticks, which latter streaming so Impetuously upwards, are the chief Cause of the Constipation of the Belly, being otherwise greatly promoted, in its natural Quotidian Evacuation by the wonted descent of the Pancreatick Juice, Relaxing and Lubricating the paffage of the Guts. The Anxiety attending a Salivation, is a Symptom oft very Urgent, and depends on a streightned passage of the Blood, through the Ventricles of the Heart; for being deprived of the greatest part of its Volatil Salt, imbiled by the Lymph or Serum, which is now too much drained from the Blood, the Pulfifick Faculty for want of the Volatil Salt, must necessarily Languish, and the Blood being too dry, and Coagulative, must needs pass the Heart with great difficulty. Neither is this the fole Cause, but being accompanied with

with a stoppage of the Salivation, as oft happens, the Salivable Matter doth Regurgitate to the Lymphaticks at bout the Hypochondria, where it doth Duplicate the Anguor, which in some I have observed so extream, that they owed their narrow Escape to very Opportune Remedies, and most, if not all, that have the ill Fate, to be Banisht the World in a Salivation (which the Surgrons and Apothecaries of this Town are fo Unsuccessful in) have been stifled by these Angours.

5. 2. The Blood floating through its Chanals, naturally is Indued with a sweetness, but in a Salivation, and the Scorbute, turns Acid; the manner how, is the great Secret of this Theory. Præmissorily it's requisite, to propose the Nature and Kinds of Acids, which are various. The Acids of Vineger, Vitriol, Nitre, Common Salt, Tartar, Antimony, Allom, Sulphur, &c. all obtain a Specifick difference, as is rendred Obvious by their Properties and Efficiency. The Acid of Vineger is particularly observed Potent, in Attracting the Sulphur of

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of Minerals. The Acid of Vitriol is Diametrically opposite to the Alcali of Tartar. Nitre by force of it's Acid, doth Amortise the Volatil Salt of any Mineral; Abstract it oft from Mercury, and the refult will be a Dulcified Arcanum Corallinum, a Medicine fingularly reputed for a mild Vomitory and Dejectory; upon further repeated Cohobations, the forefaid Arcanum deserts its Cathartique Faculties, and is limited to a Diaphoretique. The like Effects it produces on the furious Body of Butyrum Antimonii. The Acid of Salt Marine is the fole Diffolvent of Gold, especially when united with the Acid of Nitre, and then constitute the true Aqua Regia, which is in nothing different from the common Aqua Regis, abstracted from Vitriol, Nitre, and Sal Armoniac, except that the former far exceeds the latter in Purity and Force: For though the common Aq. Regia be made out of Aq. Fort. Cohobated upon Sal Armoniac, it's most certain, that the faid Aq. Fort. is nothing but the Spirit of Nitre, that of Vitriol being too ponderous to ascend through

through the same degree of Heat; and the Sal Armoniac, from which this is propel'd, contributes nothing, but its Acid Spirit of Salt, which constitutes the Body of the faid Sal Armoniac; for the Volatil Salts of Urine and Soot, which defer to it a Specifique difference from other Salts, being Alcalies; are Amortised, and Extinguisht by the Acid of Nitre, and confequently in their Extinction, must necessarily by Reaction obtuse, and hebetate the Acid of Salt, and Nitre, whence it appears this fort of Aq. Reg. must yield to the other, in point of Efficacy and Virtue. In the Thirsts of Hydropicks, the faid Acid Spirit of salt, through it's penetrative Faculty doth excel all others, in Allaying and Conquering the Exiccative Quality of those fiery Salts, that are daily Meteorised to the upper Orifice, or fupream Region of the Stomack, and occasion those insatiable Droughts. There is a Subject of Admiration in the Acid Spirit of Tartar, considering there is nothing so Remote, or Abstruse in the Body of Man, but it will find out and Infinuate

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ate into; but what is more than this, contrary to the Nature of most Acids (whose Operation is universally by Urine) it's a great Diaphoretique, and provokes Sweat potently. Antimony, if like Vitriol it may be called the third part of an Apothecaries Shop, it's Acid Spirit merits the chief place in it; for beyond all Peradventure. he that's unacquainted with this great Acid, is by some thought Ignorant, how to Cure a Malignant Feaver è Fundamento. The Acid Spirit of Sulphur, though usually termed the same with Spirit of Vitriol, hath that difference, that it contains a fixt Principle, whence it derives a power, to fix the most Fugitive of Minerals, which is denied to Spirit of Vitriol.

6. 3. Put to Illustrate this more plain, that some Acids are very different, and in a manner almost as contrary to each other, as an Alcaly is to them; only make trial upon the Magistery of Coral or Pearl, which is commonly præpared, by their Dissolution in Spirit of Vinegar, (where-upon happens an Ebullition) Exhalation

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tion of the faid Spirit, and Edulcoration; upon this Magistery affuse some different Acid, as Spirit of Salt, Sulphur, or any other, there will arrive another Ebullition, as smart, if not smarter than the former, but of a shorter continuance, which Evinces, there is a great Contrariety; as appears further in this particular, that one Acid will præcipitate, what's contained by Dissolution in the other. There is no less Contrariety between Alcalies, for Sulphur dissolved by a continuated Ebullition in the Capitel or Lixive of Calx viv. is præcipitated by Urine. Any of the Aroma-*tique Oyls, be it of Cinamon, Cloves, &c. is Incraffated, and Coagulated into a thick Ballam, by affuling Spirit of Sal Armoniac to it, which is an infallible Character of Contrariety between them, and (by the way) is lookt upon as a great Secret, whereby a Balfam may be made without the Mixture of Wax, or Oyl of Nutmegs. Besides these, it is to be Remarked, Acids are either Natural, or Corrupt. The former bears the part of a Constitutive Principle in all Natural

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tural Bodies, though being prædominated by an Alcaly, or ballanced to a temperament ad Institiam, is not exposed to be discovered by sense; but by a Chymical diffolution into their Elements, the Acid is ever discovered to Universal view to be one. AllSalts, (not being Alcalious) though the Acid lies dormantand hidden in them, by the force of Fire through a Retort, do deprome their Acid; all forts of Wood do exert the like Acid, being forced in the same manner through a Retort; which Acid before this Analysis, could not be deprehended in them by Taste or. Scent. A strict Proof will not be required, I imagine, that there are some Acids, that are corrupt; Apples and Pears when they begin to Rot, fmell and taste sour, and so do Flesh-meats, and most Artificial compound Liquids corrupting, as Beer, Syrups, Meathe, Broaths, and most forts of Decocrions, also natural Compound Liquids, as Milk, Wine, &c. None of these Acids, but by any Naturalist will be termed Corrupt. But what is more, Bodies that are primarily Acid, are subject to be Converted into a corrupt Acid,

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as appears in the Juice of Lintons, Oranges, Pomgranates, and others, which being exposed to the Rays of the Sun, do decline into a corrupt Acid,

far remote from their Natural.

The variety of Acids beyond this last inserted distinction, is great: Acids are either Pontique and Styptique, as some deep red Wines, Vitriol, and many Vitriolate Praparations; Acerbous, as immature Pears, Apples, Plumbs, &c. Austere, as fome for of Wines, that taste sour and harsh. There is also an Acre-Acidum; a tharp Acid, without any Stypticity or Austerity, as the Acid of Spirit of Salt Marine. In Mucilages is also a particuhar Acid to be observed, which may be termed Acidum Mucilaginosum. Some use may be made of deteribing Acids by names derived from Acids in Minerale, whereunto the Acids in the Body bear a proportion and refemblance, as in some it's remarkable, they experience a four styptique taste upon their Tongues, not without some likeness to Copper, which may not improperly be called a Nitriolat Acid. In the same manner other Acids may be

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ay be be termed nitrous, aluminous, &c. By the way I am to advertise, that I am not ignorant, that Natural Philosophers distinguish Tastes into acid, sharp, austere, &c. which here I do resume as kinds of Acids; referring the truth thereof to the arbitrement of any ones sense; but those Naturalists following the umbrage of reason more than Notion, abstracted from Experimental Philosophy, no wonder they failed in this particular.

Imust here divert my Reader from opinioning me to have deserted my line, in bringing on the board the nature and distinctions of Acids; which I affirm is no wife forreign to this matter; for it is from the pramises I am to deduce and illustrate, there is in the humors of the Body discoverable a natural Acid; that they are subject to be converted into corrupt A-

cids; and the manner how.

If to all Phytical Bodies there concurs an Acid, as a Confittutive Principle, whereby the Alvali is bound and coagulated into a body, it cannot be denied to the humors, which for further proof being mixed with Brick

dust, the Mass formed into Cakes. dried, and forced through a Retort, you shall find in the Recipient an Acid spirit of great Energy and Vertue in Hydropick Maladies. is the natural Acid is Latent in Humors, and not to be discerned by Sense, because it is prædominated by the Volatil Salt being of an Alcalions Nature. To continue the s're, in the next place it's to be declared, the Humours, and particularly the Chyme is susceptible of a putrid Acid. vulgar Barber-Surgeons and Bleeders, give their Testimony, that the Blood by Phlebotomy extracted out of feveral diseased Bodies, to their taste hath appeared Aluminous, Austere, and in fome Scorbutiques very fensibly Acid or Sour; their Breath hath also expired a four steam, and those Tormina or taring pains of the Guts, which Scorbuticks are so much exposed to, are fometimes caused by a Pitnita Acida, or Acid Phleam, terebrating the Tunics of the Guts. For brevity I do prætermit many other Arguments, inferring the Blood in Scorbuticks to be Acid, as the evident Derivation of Symkes,

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Symptoms from an Acid, will in the process of this Discourse more amply Demonstrate; only in conclusion of this Paragraph, I do fay, That if it be granted, that Milk doth oft turn four and curdle in the Breast, it's as probable the Blood in the Veffels doth turn four and Coagulous, they being in constitutive principles, but little different from one another. I cannot very well avoid animadverting on an Objection, that Prima fronte seems to carry some force, viz. That if the Blood be supposed Acid in the Scorvey, then all Acid Medicines must render the Blood more Acid, and the Disease worse, as is implied by that trite Theorem in Physick, Similia &milibus conservantur, & contraria contrariis curantur; and consequently Alcalies should be furnished with a virtue, to subdue the faid Acid, being their contrary. The pramitted differtation contains as to this a very fatisfactory Antwer, wherein it is very perspicuously Exhibited, that many Acids are è Diametro contrary to one another, as according to the rule of contraries (Contraria sese mutus pellunt

lunt ex eodem subjecto) appears by the several Ebullitions (a sign of contrariety of two different Acids) in the above-mentioned Præparation of Magistery of Pearl or Coral: Wherefore most Acids, especially Spirit of Salt Marine, Juice of Sorrel, Limons, Citrons, &c. are so deservedly extoll'd in some Scorbutick Distempers, and seconded with good success; though I must confess, they are most properly and chiefly useful in a Lixivial Scorvey.

The field of Acids is large; Therefore which of them this Scorbutick Acid doth most imitate, will be expedient to propose next. Upon pervolving those Authors, that have treated on this Distemper, I find them so closely adharing to similies abstracted from Wine and Vineger, that I judge it a matter more facil, to draw a Drunkard out of a Tavern, than them from their course notions upon Wine and Vinegar. He that resembled Scorbutick Blood to Wine, that's turn'd Ropy, hugshimfelf in that subtle Invention, and in the ample recompence of being applauded by the young sucking Physicians. This word Rapy is oft intended for firingy, or frea-

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ky, there being long streaks separated from the whole fluid Body, and floating in the thin liquor, as appears in Milk that's turned four and grown Roapy: But fuch I could never yet observe in Scorbutick Blood, though I have examined a great number of Porringers. Blood that's tenacious, obductible and glutinous (which thence may be termed pendulous)I do very fraquently meet with among Scorbuticks, but that's no other, then what flows in the Veins of most Cachecticks. The Cause affign'd (by my Author) of the Roapiness of the one and the other, is an over-fretting; wherefore, he faith, the Storvey is oft subsequent to a continual Fever: And why not then to all Fevers, there being as much an overfretting in the one as in the other? Whence this is the confequence, that all scorveys are produced by Fevers, or Over-frettings; And what overfretting of the Blood are Seamen and others subject to that derive the Seminary of their scorvey from the Salin Air of the Sea? I could never yet understand any. He proceeds, and would perswade you to believe, that through

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through this over-fretting, the sulphur and Salts are separated from the Mass of the Blood, and being abandon'd to the Urine, render it Red like unto Blood; as if the Urin of all Scorbuticks were of that tincture. If this prætended Roapiness may be attributed to the Blood, it must be that, which is contained in the Vessels of the Mesentery, whence gross Humors are purged away in great Streaks and But that it should be Ropes: Streaky within the Vessels, because it appears fo, when by Carthartick Phylick its purged thence, Non valet ratio. For a farther Explanation upon Ropiness, I refer to Chapter 11.

Others affirm, the Blood in the scorvey to turn Acid like Vinegar. By the way, you must not apprehend the Blood to decline to the same Degree of Acidity Vinegar is of; for that must necessarily Inser a Total extinction of the Dogmatick Innate and Instuent heat; but that it only recedes from its Dulcor and Sweetness, to a Crude Austerity and some small Acidity. It will not be out of purpose, to Examine how an Acidity is introduced into Sul-

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into Wine, and confequently becometh Vinegar; whence probably may be Extracted the Cause of Acidity in Scorbutic Blood. Peripatetique Philosophy afferts Wine to change into Vinegar by Putrefaction and Corruption. Putrefaction(being by fome accounted only a tendency to Corruption) is Defined by the Stagirite a Corruption of the proper Natural heat in each moist Body, occasioned by a forreign Heat that's without. This applied to the Generation of Vinegar, infers that Sourness to proceed from an Extinction of the Natural heat or Spirit of Wine, by an External Heat. I cannot but admire here, that a Liquid Body should iffue from a præceding Liquor by Putrefaction, and that without any Fetor or stinck, which is afferted to be an inseparable Accident; and what is more, that a Body should be engendred by Putrefaction, which of all others is the greatest præserver from Putrefaction; for such Vinegar is esteemed to be. Wherefore it's more Rational, and Consentaneous to Experiment, that Wine confifts of fixt Salt, Sulphur, Volati.

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Volatil Salt, and Lymph, or in the spagyrick phrase, Mercurius. The Fixt Salt is the Acid Tartar; the Volatil (Incorporated with the sulphur) being disiolved into a small proportion of Lymph is the Spirit, which as long as it continues United with the Fixt Salt, doth obtuse the Acidity, and renders the whole Mixture fweet, as the Wine appears to the Palate, but being feparated from it (as hath been hinted before) the Acid Tartar dissolved in the greater proportion of the Lymph, in effect is the Vinegar; so the way to make Vinegar, is to Abstract the Spirits or Volatil Salt from the Wine. by suffering it to Exhale, or by Expopoling it to the Sun, or Heat of a Fire, which Attract the foresaid Volatil salt, or by adding a small Measure of sharp Vinegar to a greater of Wine, which with an united force of the Fixt Salt, do foon Extinguish and Expel the Volatil, and then the prævailing remainder is Converted into Vinegar. Method chiefly in use among the Vinegar-makers in France is this; They take two Barrels of a long shape, which there they call Flates, and being

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ing well cleanfed, they put into each of them Four, Six, or Eight Quarts (according to the bignels of the Vesfel) of the strongest and sharpest Vinegar, being made Boyling hot, and thereupon stop the Bung-hole very close, then they Roul and Move them to and fro for Six Hours together, until the Vinegar is grown cold, after this they run it out again, until there is not a Drop left, and then lodge the Barrels in a warm place, and fix them fo, that they may lie fast and not stir; upon this they make two Holes (which they call the Eyes) in each of them with a Piercer, about a foot from the bottom, and pour into those Holes through a Funnel, some Eight or Ten Quarts of the best Vinegar, and a Week after they pour Two Quarts of Decayed Wine to it through the fame Holes, to make Vinegar of, a Week after that they put as much more to it, and so every Week they add as much more to it, until the Barrels are a little more than half full, and then they encrease them every Four dayes, until they are quite fill'd, which they draw off to two Thirds, for for to Sell; and afterwards fill up

their Flutes again gradually.

From whence I infer all Wines to be actually Vinegar, and Spirits, that is to be Physical Compounds, containing actually the Principles of Acidity in them, and Volatil Salt of an Alcalious Nature; and on the other hand I deny, That in Vinegar the Acidity is Introduced or wrought into it per fe, by the Efficiency of the Sun or other Extraneous heat, but only per accidens, by separating the Volatil from the Fixt Salt, or Reducing it into it's Principles.

In the Generation of Vinegar there are several alterations observable, being Ascents and Degrees, tending to that extream Acidity Vinegar is of: In the first place, Wine changes to a Muddy and Turbid Countenance, loosing that Diaphaneity and æquality of Substance and Colour it had, because the Constitutive Particles have changed their Position and Situation; for in Wine that's declining towards the Eger, the Volatil Salt, which before had æqually expanded the Fixt Acid Salt, Exhaling or Receding,

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the faid Fixt Salt doth somewhat Coagulate, and Unites nearer in its Particles, whereby this Obscurity and Turbation is Introduced. In this degree the Wine hath fomething changed its Tafte, and Drinks flatter, but no kind of Sourness doth then appear; for though the Acid Salt feems to get ground upon the Volatil, it's not yet arrived to any mark of Acidity, because the aforesaid Acid is Commixt with a flimy dull Tartar, which Obtuses its Sourness, and is the principle Cause of the Obscurity and Turbidness in the Wine. It is not long after, that a little Sourness may be discovered by the Taste, and Turbidness observed to diminish; for as the Wine gains in Sourness, so it lofeth in Obscurity, the Acid freeing it felf from the slimy Tartar, præcipitates it to the bottom, or by Inciding and Attenuating it, dissolves it into Lymph, whereby it's Clarified and grows Pellucid, and consequently as it grows Soure so it grows Clearer, until it becomes perfect Vinegar, and then it's likewise grown perfectly Diaphanous.

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Now you may eafily imagine, it is not my Scope, only to offer my Reader the Theory of Vinegar, or to Inform him, how to Arrive to be a Vi negar-maker, but by a way of Comparative (for Notions in Physick fraquently spring from that Method) to the Blood, to Illustrate its manner of recess from it's Natural towards a Scorhutick Acidity. Wherefore first you are to apprehend, the Blood in its Native Constitution is sweet, or of the Qualification of a Pingue Dulce, it's nitorous or shining, of an æqual Temperament and Mixture, imagine ad Justitiam, and not Perturbated or Coagulated, but Fluid and Smooth; by reason of its Volatil Salt is so Penetrative, and Infinuating (though when it's Tapt out by Ph'ebotomy, appears thick) that Quick-silver the most Infinuating of all Minerals is Gross to it; for it's Observable, the blood doth daily pierce to the most Intime and Remote Pores of the most compact parts of the Body, viz. Bones, Membranes, &c. Lastly, The Blood, though confilting of a Fat and Unctuous substance, the Taste of it is Smart and Piercing.

It is in all these and more particulars the Blood in scorbuticks doth undergo an Alteration. I shall begin with a short Comment upon its Acidity, unto which it gradually recedes from its Natural sweetness; but the kinds of Acids being many, it's requisite to assign, which of them this Distemper

is grounded on.

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The Volatil Salt of the Blood Suffering any impair by depravation, diminution, or extinction, the natural Acidity of the faid Nutritive Liquor, doth acquire a prædominance, or fometimes an absolute power, in the same manner as was afferted above, touching the change of Wine into Vinegar. If obtaining a prævalence, renders the state of health neutral, but if by conquest it hath got an absolute power, denotes the temperature and mixture of the Mass of Blood dissolved, which onely happeneth in those, that die of old age. But supposing, that upon the affection of the Volatil Salt, the natural Acid lieth exposed to injuries (read Chap. 11.) which during the intire Vinculum of both, it was defended from; then the forefaid Acid degene-H rates

rates from its natural into a vitiated. putrid, or corrupt Acid, which ipfo facto doth constitute a disease. This præmised, I assert, that a recent, or confirmed scorvey is the adaquate effect of a putrid Acid; The others namely auftere, or pontique, are caufes onely of melancholy, hypochondriac and mesaraic distempers. Proof hereof may very well be made by arguments, defumed from the effects, that issue from the causality of a putrid Acid. First we will examine the blood of scorbuticks, which upon view I have fræquently remarqued, to be of a dull countenance, and in no wife nitorous, of colour livid, or fometimes cineritious, or in others refembling the whites of Eggs, interfperfed with opaque streaks; in point of confiftency thick, coharent, conglobated and tenacious, being also overflown with a turbid ferofity, ot gust palpably acid, and here and there a nitrous Acid, both in scent and taste, and at no time gratefully acid; in initiated Scorbuticks the serofity discovers a crude, austere, or sometimes pontique Acid. The evidence here is

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is strong, being demonstrable to one of the surest Senses, viz. the Taste, and that defumed from the Serum; which by reason of the Salts and Tincture it extracts from the humors, affords a most pragnant discovery of the constitution and complexion of the Blood. But we shall insist no longer on that sense, but convert our discourse to experiment; instil a few drops of Spirits confisting of a Volatil Salt (viz. Spirit of Sal Armoniac, Cornu Cervi , Soot, &c.) into a small proportion of Blood; their effect will render it fluid, nitorous, serene, of a most pleasing red, and rescue it from a dissolution of the Humors: But on the other hand, Acid drops, viz. of Nitre, Salt, &c. occasion immediately a Coagulation of the faid Humors, and a separation of their ferum, leaving those in a turbid commixture, dull, opaque, cineritious, and of an ill whitish fleam colour. Whence we may rationally præsume, Scorbutick Blood fo exactly refembling what is impressed on any other Blood by these Acids Spirits, to derive its vitiated constitution from an Acid, H 2 which

which must necessarily be a putrid one, as shall be explained hereafter. In the next place, let's make Inspection into the Characters of Scorbutick Urin, which for confiftency is uncertain, most times muddy, turbid and thick, fometimes thin and opaque; for colour pale and whitish, though in some few of a raw bloody colour, like water, where raw flesh hath been washt in; for contents various, fometimes a copious sediment of an Ash colour, with a foun swimming on the surface like Tallow, other times a fmall fediment. By feent is detected a particular stinck, not like what's expired from other Urin. The causality of these qualities in the fore-mentioned Urin doth lie between an Alcalious Lixivial Salt, and an Acid Salt. The first contributes a muddy deep yellow, and fometimes a faturated red tincture to the Urin, and therefore relating to fome inveterate scorvey, doth confequently lodge the faculty of engendring a Scorbutick Urin of a recent Distemper in the latter, viz. an Acid Salt. Moreover, the same Experiment of Instillation of different drops into n

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into Urine, produces the same evidence it did upon the Blood. That this Scorbutick Acid is putrid, appears by its production and inseparable adhærence of a stink, for which a sufficient testimony may be taken from the breath of scorbutics, the steams that evaporate from their Bodies, the ill fcent of the Serum of the Blood and Vrine, which all stink abundantly. To make at præsent any further conviction, that a Putrid Acid is the internal cause of the scorvey, by deriving any more Symptoms from its efficiency, will be superfluous, in regard, that will be fingularly explained in the particular mention we shall make of them. The cause of a Putrid Acid shall be proposed in Chap. 11.

H 3 CHAP.

CHAP. VII.

Of the Procatardic or External Causes of the Mouth-Scorvey.

1. That Mercury fraquently used, proves ordinarily an occasional cause of the Mouth-Scorvey. 2. That a Salin Air and Salt Diet are the principal external Causes of the Scorvey. 3. Whether a Salin Air or Salt Diet be the more principal Cause. 4. How Salt Meats cause an Acidity in the Blood. 5. That the Drink bremed about London is brackift. 6. That Gluttony and Debauchery are two grand scorbutique Abettors. 7. How the other Non-naturals contribute to the engendring the Scorvey.

Salivation excited by Mercurials, and accompanied with its usual attendants, is beyond all peradventure a Month-Scorvey; and for that reason Hartman and other

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Chymical Authors, affirm Mercurial Medicines pernicious, and altogether improper in Scorbutique Distempers; and consecutively to this Affertion, I have fræquently observed, that such as have been obliged to make use of Mercurial Remedies against their Venereal Maladies, do ordinarily fall into the Scorvey, which sometimes proves more stubborn than the Distemper, which the faid Mercurials were intended against; So that we must set down Mercury, to be one among the number of occasional Causes of the Scorvey.

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6. 2. Groß fæculent and obstructive Diet, especially if overcharged with Salt, or rendred hard and compact with Smoke, as dried Neats Tongues, Bacon, Saufiges, Red Herrings, Dried Salmon, Hung Beef, &c. do not only contribute matter, but obtain also a peculiar faculty of impressing a Scorbutic Idea on it. Of the same nature are Melancholic Meats, as Beef, Pork, Geefe, Ducks, Salt Fish, and all other Fish, that are bred in standing Waters, as Eels and others; also Pick-H 4

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led and Marinaded Fish, as Pickled Herrings, Anchovies, &c. The next of the Non-naturals, that bears a great part in this morbifique production, is a Salin Air, rendred thick and constipative by Vapors and Damps, Nitrous Exaporations out of the Earth. filled with putrid steams of Sinks, Gutters, Ditches, Muddy and Dirty Streets, and Sulphurous Smokes of Chimneys, stagnating and pent up between narrow lanes and corners, and feldom ferenated or purified by the rayes of a clear shining Sun, nor fræquently ventilated with Easterly briezes; and fuch is the Clime of London, where the Air is experienced close, dull, damp, salin and muddy, over-spread with dense, dark, salin Clouds (attracted out of the Sea) for two third parts, if not three fourths of the year; during which time the wind feldom blows Easterly, or is favored with a smiling Sun.

§. 3. These two are accounted the principal external Causes; the former aggressing the Body within, the latter without; but to which of these the sole

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fole causality may be imputed, hath been controverted between some Modern Authors, the one party, whose opinion induceth them to believe the Scorbut to make its first assault on the Blood and Animal Liquor, by entring the external pores, frate the Air the chief and original efficient: The. other, apprehending the Stomach and its Ferment, to receive the first efforts. proclaim Diet the principal Agent. In favor of the former sentiment, these arguments feem persuasive, 1. The Scorvey being affented by most an Endemick Disease, which generally derives its production from the Constitution of the Clime, infers a verdict for the Air: and, 2. This is further confirmed, by being also asteemed among the number of Contagious Maladies, which are univerfally communicated by Transportation of morbifique Miasms, whereof necessarily the Air must be the chief Vehicle, and confequently a more principal cause than the other. 2. Symptoms bearing Characters more obvious to sense, offer an evidence very plain; wherefore if the Animal Faculty be the first sufferer,

ferer, as appears by the Symptoms. viz. Lassitude, Drowsines, Noise in the Ears, &c. and that the faid Symptoms of Lassitude, &c. be perceiwed by the Patient, while his Stomach and its Ferment continue in their vigor, and exempted from any præternatural affection, then it's undeniable. but the Air is the primar Agent. Those who espouse the contrary arbitrement, affert the faculty of the Stomach to be impaired, and next after the Blood to be vitiated, before the appearance of any Lassitude, or other Animal Symptom; moreover, that the word Endemic, importing only a common Disease among people (from and sing) doth not exclude the generation of a Disease to be from a Vitiated Diet, or any other Non natural. Touching its contagion, they affirm a Disease may be primarily engendred within the Entrails, and afterwards prove contagious: But lastly, whether the decision hereof be any whit material, in relation to the Cure, is left to the Reader.

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6.4. The next circumstance that's worthy of inquiry, is the manner, how a Vitiate Diet, or impure Air, doth cause an Acidity in the Humors. We will suppose, That a Salt Diet * is * i.e. Salt the most common Efficient of the Scor- Meat, and Brackish vey, which being ingested into the Bracks. Stomach, doth chiefly act on the ">200 Nervorum, confisting in a great proportion of Volatil Salt (whose office principally is, by contraction of the F bres to corrugate the Stomach) and Spirits of the Arteries. It is then this extraneous Marin Salt, that attracts and absorbes the foresaid Volatil salts, with the liquor they are contained in, in great measures; and hereupon occasioning a great Drought, forceth the Stomach to covet vast quantities of Small Drink; whereby the Stomach is immoderately cooled and relaxt; the foresaid Volatil Salts rendred fixt, and spirits drowned and extinguisht; moreover the faid Extraneous Salt having absorbed and attracted the Volatil Salts into its Centrals, they meet with the Acid, that's latent in its Bowels (as appears upon driving

driving Salt Marin through a Retort) which through its contrariety to al. calies, amortises the fore-mentioned The consequence upon this Volatils. is, that the digestion is not perfected, and the contents not justly dissolved and coaquated, but remain crude and imperfect, whence must happen Crudities and Obstructions, which afterwards prove a Basis for all other Dis cases to be establish on.

s. 5. It is not to salt, or other unwholfom Meats, we must solely adscribe this Scorbutick Effect, but lay part of the charge on Drinks, that are used among us; in particular the Beer and Ale that's brewed about the City; the Water whereout they are brewed being absolutely brackish, or imbued with a proportion of salt, though not fo great as to be discovered by the Pallat. That Water containing a Tincture of Salt, is thereby capacitated to make the stronger Drink, is most certain, and for that reason, because the Water being somewhat brackish in England, and therefore making the strongest Liquor, it's thence English

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Beer is reputed the best and strongest in other Countries. Consequently to this Remarque, I find, that Beer or Ale brewed out of Thames Water, is more vigorous and spirituous, than what is made of other Water, because the former by having a commerce with the Sea, is more Salin; and thence it is also that North-down and Hull-Ale exceed Thames-Ale in strength, as being nearer to the Sea. This may likewife be confirmed by the practice of some Brewers, who to render their Drink the stronger, do commonly fling some small quantities of Salt into their Brewing; wherein exceeding sometimes a due proportion, doth impress so great a seasoning on their Beer or Ale, that it's manifestly perceived brackish by those that drink it. The reason of this fort of process is grounded on the infinuating and attractive Vertues of salt, attracting the intire life and foul out of the Malt. Neither are Chymists ignorant of these attractive faculties, who when they are to extract a Spirit or Oyl out of Aromatics or Cephalic Herbs, generally dissolve a handful

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or two of Salt into the Water, while it's in digestion. Apothecaries do a so experience, that Roses lying a few dayes in Salt, yield a water much mon odoriferous, than if Distill'd off sim-These Instances are produced to make proof, that the water of London is Salin, and confequently highly Scorbutick. But probably an Objection may be started, that though Thames Water from its communication on with the sea, may be suspected Sa lin, Why should other Waters whereout Drink is also Brewed, be afteemed fo? To this I answer, That the Air of the City being perfused with falt Clouds, attracted out of the Sea, (which is no great distance thence) doth sufficiently imbue it with that Tincture: Moreover, the Earth over which those Waters stream, contributes to it a Saltness, being brackish, as may appear to any ones Gust, that will adventure to taste it; now that Clay Ground, and other forts of earth, do exude or sweat out a salfugo, or Saltness, is abundantly manifested in Salt Pits; and undoubtedly the Pit-water which Casars Army made ufe while

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use of for two Years together, when they were quartered near the Rhine, fourced from a falt Pit, though not fo much Imprægnated, as to be distinguisht by the Palat, or at least the foresaid Water was imbued with some Mercurial Vapours (but the former is more probable) which afterwards gave them a Disease like the Mouth-Scorvey; they being subject to a Vacillation and elaps of their teeth. with pains of their Gums. One fort of Water we have not yet taken notice of, which is of standing Pools, as that is reported, whereout that Liquor is Brewed, which goeth by the name of shoreditch Ale, for ftrength being Superlative to all other. No doubt but Water by stagnating, doth contract a Putrefaction and Saltness, which being thorowly allayed with the Cream of a fat brackish Clay, is naturally præpared to Brew thick fat Ale; whence that Water is vulgarly termed strong bodied, whereas Spring water is accounted thin weak Water, and not capable to Extract the intire strength of the Malt, as the other is; which is true enough spoken. This Dif

Discourse doth also infer sour Beer, or Ale, to be very pernicious, likewife decayed Wines.

5. 6: Among the next relating to both the præceding Branches, we must impeach Gluttony and Debanche-, for two grand Scorbutick Abetters The former by imposing too greata burden on the Stomack; doth so much obtuse the Volatil Salts, that the Acid thereby gaining a prædominance, and thereupon foon growing putrid, occasioneth Crudities and Obstructions, and so an Inlet to the Scorvey. The latter refers to excels of Drinking strong Liquors, particularly French Wines, through which the Stomack suffering fræquent inundations, their Spirituous and Volatil particles are attracted Crude, and Undigested into the Vessels, which in a short interval of time, Obnubilate and Drown the Volatil Salts of the Nerves and Arteries, as not being fufficiently præpared to be Assimilated to them; and these Efforts being oft repeated, do at last Vitiate, Evaporate, and Amortize the Spirits On

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On the other hand, the Liquor that's remaining in the Stomack, is left Acid and Acrimonious, in the same manner as was Instanced in the making of Vinegar.

6. 7. From what is here Discourfed, relating to the manner of a Salin Diet occasioning a scorvey, may eafily be Collected, how a Salin Air operates the same effect, viz. By entring the External Pores, and being inspired down by the Lungs, doth assault the Vital and Animal Spirits and Salts. 2. By contracting the Pores through its Exiccative and Absorbing quality, and constipating them by its großness and crassitude of substance, whereby reverberating and locking up within the Body the fuliginous steams, that stifle or smother the Spirits, and fixe the Volatil Salts, in manner, that they assume the Nature and Quality of a Marine Salt.

Touching the remaining Non-naturals, viz. Motion and Rest , slee) and Wakefulness, Excretions and Retentions, and the Paffions of the Mind, though they come not within the no-

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tion of Primar sole Efficients, yet do potently contribute to the production of the scorvey, by as much as by their inordinate use, they aggres, vitiate, diminish, and extinguish the Volatils, and give an increment to the Acid; which how it's effected, may easily be deduced from the præmises. To these adde a Melancholic Complexion and ill Constitution of the Bowels, especially of the Spleen; also Fevers continual and intermittent, particularly a Quartan, which doth fræquently expatiate into the Scorvey, ceteris concurrentibus.

Upon this præliminated Explication a decifive touching the controversie in Par. vii. may easily be attempted; viz. That both can be admitted principal Efficients in the Scorvey; for many though observing the exact Rules of Diet, have notwithstanding by living in a Salin Air, contracted the scorvey, which as hath been copioutly expounded, is fufficiently qualified to produce the Distempers fore-Moreover those that mentioned. derive the Scorvey from a Contagion (which hath been oft observed) do attract

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tract the Scorbutic Seminaries and Miasms through the Air, without the least concurrence of Diet, as having been regular and wholfom. On the other part, a Salt Diet continued for some proportionable time, hath engendred the scorvey in fuch places, where the Air could not be suspected ill, and of this there are examples numerous enough; but waving that, I will evidence it in a præsident, that is more fræquent, and of a shorter production. Drunkenness in such whose Blood is not apt to be kindled into a Fevor, hath in a short interval occasioned an universal lassitude and weakness in the Knees, Spots and Blotches about the Legs and other parts of the Body, laxity, discoloration, and soreness of Gums, pain and loofness of the Teeth, a four stinck of Breath, &c. which Symptoms do plainly declare it to be the scorvey, and that produced without the suspicion of an ill Air. So that either may be afteemed a principal efficient, though where both do concur as principals, there it occasions the scorvey to be Endemic; but where it is contracted from either fingly, there it's sporadic. CHAP.

CHAP. VIII.

Of a second different internal Cause, being the cause of some Leg-Scorveys, and many or most Terminatory Scorveys; namely Saponary Blood.

1. Instance , That there are two forts of Causes (contrary to each other) of the Scorvey. 2. The Constitution of the Blood in an Alcalious Scorvey. 3. The Error of Sennertus and others in afferting the Cause of Roapy 4. The true Cause of Roapy Blood. 5. Proof by Experiment of the Lixivial Constitution of the Blood in the Scorvey; and why the Blood is termed Saponary.

He Tenor of the next præceding Chapter implies a Putrid Acid, pradominating over the Volatil Salt, to be a cause of one fort

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fort of scorvey; here we intend to propose a scorvey different from that, wherein the Volatil Salt being vitiated and augmented in too great a proportion, over-ballanceth the Natural Acid, and produceth a Constitution of Salts and Humors, likewife Symptoms, that are absolutely Scorbutique, but of a fiercer and more malignant quality. By the way, I must prævent my Reader from any hæsitation, wherein it may appear strange to him, that Symptoms that bear the fame countenance, should be derived from two contrarily different Causes. As to this, it is an Observation evident enough in other Diseases; for instance the Colick is fometimes occasioned by Bilious Lixivious Humors, corroding the internal Tunic of the Guts, in which case they usually suffer a Contraction in longitudine; sometimes it's caused by an Acid flatuous phlegmatic Humor, and here the Guts are affected in latitudine. On the former is imposed the name of an Hot colic, and on the latter a cold colick; the same may be also observed in Pleurifies and many other Distempers. 9. 2. The 1 3

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6. 2. The Constitution of the Blood in this kind of scorvey is far different from what it is in the other; for here the Blood runneth into a thick coharent Fluor, like Syrup, doth not coagulate or concrease; but continueth in the same form, without the separation of the Serum, that in the other commonly floats on the top. The difference is likewise in colour and tastes here the Blood appears in a purple, and to the taste its Lixivial and Acrimonious. Touching the Symptoms; the Acid Scorvey exercises its fury most on the parts above the Navil, the Alcalious Scorvey, chiefly on the parts below, what farther distinction is remarkable, you shall read elsewhere.

§. 3. Certainly it was a great Hallucination in Sennertus, but far greater in others, that have wrote since on that Subject, to prætend an Acid the cause of Pendulous Blood (a term the Recentiors have borrowed from the fore-named Sennertus, though ill verted into English Roaps, as hath been animadverted before) which rather causeth

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causeth a Coagulation, as appears by Experiment, upon instilling Acid drops into Blood or Milk; and yet this Acid is so abominably stretcht by a late Author, who obtaining a particular knack of writing a Story smoothly, doth endeavor to adaptate it to Symptoms in general of all forts of scorpey; whence I find, neither he nor those that harbour his Notion do arrive to a success of curing some Leg-scorveys, æqual to that of the Month-scorvey, but are oft render'd infinitely worse.

6. 4. The cause of this thick incrassated coherent Blood, that if poured into a Porringer, hangs in short ropes or long drops, like Ballom or liquid Soap, when poured off, I impute to the fixation of the Volatil, which united to the Fixt Salt of the Blood, doth alcalize and calcine it, whence assuming the nature of other Calcined Salts (as Salt of Tartar and Nitrum fixum) doth attract and abforb the Serum of the Blood, and some moisture out of the Air, whereby that and the whole mass is turned into a Deliquium, and so becometh thick

thick (the Serum being absorbed) coherent and pendulous; because part of the Blood is naturally glutinous, which being tied closer together in its particles by the absorption of the thinner and serous parts, must needs prove pendulous; of a taste lixivious, because such all Calcined Salts appear to the Palat; and of a purpre colour, because the Blood is adusted from a florid red into blackness.

s. 5. That the Blood of these Scorbutics, which are here mentioned, is qualified in the manner described will appear to any, that shall give themfelves the trouble of examining Scorbutick Blood, when occasionally extracted by Phlebotomy; but least such as defire to be satisfied in this point, have not a ready opportunity of examination, we will endeavor to convince them of this truth by experiment. Take Blood that's found, and possibly extracted for pravention or abating a Plethory, instil into it Spirit of sal Armoniac, or of any other Volatil Salt, it shall praserve it in its fluor, colour, confliency, mixture and

and other qualities, until it be evaporated, and then the faid Blood by coagulating into a Mass, will separate from its Serum: But if instead of this, you affuse a small quantity of Calcined Fixed Salt, that's runned into a Deliquium, it will incrassate the Blood, change it into a deep purpre, render it pendulous and lixivial to the taste. After all, proving the particular Symptoms to iffue thence as proper immediate effects, will crave an undeniable conclusion; but that shall be referred to a further inroad into this Difcourse. I must not retire from this Subject, before I give the reason, why I have named this fort of scorbutic Blood, soapy, or saponary; namely, because like soap confifting of Tallow and Lixivial salt, the Blood in this kind of scorvey, is also compoled of a deflagrated incrassated sulphur and a Lixivial salt, both commixt and united into one Body; but how and through what causes it is rendred so soapy, shall be told you in the next Chapter.

CHAP. IX.

Of the Procatartic Causes of Lixivial Alcalized Salt, in Scorbutique Blood.

Fixt Salt volatil Salt is nothing but Fixt Salt volatilized by the commixture of Sulphureous Particles is proved by Experiment. The manner how a Volatil Saltis fixable. 2. The remote Causes of Saponary Blood. 3. That Salt is capable to produce two contrary effects, viz. an Acid and an Alcali. 4. A farther proof of the Saponary Synthesis of Scorbutic Blood.

onservative of the Volatil, for (according to one of the Hermetick Theorems formerly recited) a Subtil Sulphur penetrating into the pores of the Fixt Salt, closely knits it self with its particles, and being of a subliming nature, that is derived from the igneous

igneous minims it contains, doth levitate, sublime, and volatilize the said salt. Experiment doth affert this a certain truth ; affuse spirit of Wine on Calx Vive (which beyond all Objection is prægnant of Fixt Salt) after a short digestion, abstract it, and some part of the Fixt Salt will be volatilised and sublimed with the Sulphur of the foresaid Spirit. Possibly here may be demanded, how doth it appear any of the Fixt Salt is volatilived? Hereunto I answer, 1. By the Taste, the foresaid Spirit proving more igneous, vibrating and pungitive to the Tongue. 2. Spirit of Wine, by reason of its Sulphur, is inflamable to the last drop; but being united to this Volatilized Salt, doth very difficultly receive a flame, or when inflamed, will scarce continue. One Experiment being too canty, I will offer you another. Volatil Salt of Amber is fixed by abstracting Spirit of salt from it; and being fo fixt, affule on it spirit of Wine, digest them a while, and then abstract the spirit of Wine from it, and you shall find the Fixt Salt volatilized again. Hence I infer.

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infer. 1. That the Fixt Salt is not only the original matter, but also the sole conservative and nourisher of the Volatil, by yielding new fublimable parts. 2. That the Constituent principles of a Volatil Salt are a Sulphur and a Fixt Salt. This being allowed or at least præsupposed, doth detect the manner, How a Volatil Salt is fixable, viz. by divelling the sulphur from it, or stripping it of its force and efficacy; fo that those externals that act against the foresaid sulphur, are to be asteemed the Procatarctic Causes of rendring the Blood Scorbutic, and of lixiviating its Fixt Salt.

**S. 2. The same remote Causes, which in one of the præcedent Chapters were declared Efficients of a Pntrid Acid, are also impowered to lixiviate and alcalize the Fixt Salt of the Blood, though not in the same manner, or univocally, but per accident, and æquivocally; so the Sun is virtuated to produce contrary effects æquivocally, in engendring Cold and Hot Bodies, moist and dry. A Salin Diet and Salin Air, by vertue of their Salt Marin,

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Marin, do absorb aud concentrate the Sulphurous minims of the Blood, which being inflamed, and rendred corroding, partly through its own nature, partly by its union and amplexe of the Saline parts, and being withal thereby Fixt, are both præcipitated to the Fixt Salt of the Blood. whereunto also uniting, do all become Soapy and Lixivial. Secondly, The Fuliginous Salts, that are too copioufly occasioned in Saline Scorbutic ebullitions, are a principal cause, but for a more ample satisfaction I refer you to Chap. How greatly the familiar fipping of Brandy and otheradust Spirits, do contribute to the inflaming the Sulphurous particles of the Blood and lixiviating of it, is fufficiently obvious; likewise that fuming Tobacco, under the notion of concentrating and fixing the Sulphurous and Volatil particles, doth lixiviate and fix the Blood, needs no farther proof.]

§. 3. Least I should leave the least scruple, that might induce the Reader, to supect the contents of this Discourse,

I apprehend it expedient ; to remove this Objection, which is offered by way of Quary, How can a Salt Diet or Air, or rather Sea Salt, occasion two contrary effects, viz. of rendring the Blood Acid, and Lixivial or Alcalious. ted before, that these effects are derived in a various manner, to wit, an Acidity is caused, as was explained formerly, by the separation of the Volatil salt and subtil sulphur, which is an effect per accidens; an Alcali is impressed on the salt of the Blood, by an effect the Marin Salt produces per se; for through its igneous faculty, and especially when its tumid with the absorbing the Sulphur of the Blood, it alcalizes the Fixt Salt. 2. The fore-mentioned Marin Salt is not only naturally fiery, but vigoroufly augmented in its igneous quality, by its conjunction with Lixivious Salt, or Excrementations Choler, that naturally ought to be separated and evacuated by the Gall Bladder and Cholidochus, whose passages in a confirmed Leg-scorvey are commonly for a time constipated, the Excrements of the

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the Guts through their paleness and liver fignifying as much; but withal observe, that the Cystis Bilis and Duaus Cholidochus continue obserated only for a certain space; for afterwards the foresaid passages are forced open, by the abundance of gross lixivial Choler, which then impresses a deep red Tincture on the Excrements of the Guts. Furthermore observe, That commonly the Month-Scorvey præcedes a Leg-Scorvey, and feldom do both invade the Body at the same time, but one upon the neck of the other; fo that if the Month-Scorvey continue any considerable space, the Leg-Scorvey must necessarily follow.

s. 4. Observe likewise, That some continual and intermittent Fevors, especially Quartans, do sometimes exchange into Alcalions, but no Acid scorveys, as by their internal Causes and Symptoms, which the deep red Tincture and vehement stink both in Urine and Ordure, likewise a very saline Sweat and Spittle, doattest lixivial, is evidently declared; and that which doth

doth positively evict the cause of these kinds of Scorbuts to be Alcalious and Saponary, is their Cure, which is chiefly to be performed by Acids, as Spirit of Salt, Antimony, &c. and by Subtil Sulphurs, and Volatil Salts; but in no manner by Fixt Alcalies, upon which an irreparable detriment hath oft enfued. Lastly, To prove the undeniable truth of these Observations, the vulgar management of Sea-men (who are out upon long Voyages) in their Scorveys, which so inevitably they are incident into, using nothing but Acids, as Spirit of Salt, Juices of O. ranges and Limons, wherewith they are abundantly stored, tells us, it's an Alcalions Saponary Scorvey they are subject to, against which an Acid is the diametrically contrary Remedy.

CHAP. X.

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Comprizing the Examination of Scorbutic Principles proposed by a late Author.

nian Authors Treatise on the Scorvey recited, and proved erroneous. That Scorbutic Blood is neither Rancid nor Roapy in the sense intended by the Oxonian. 2. A recital of several absurdities necessarily ensuing on the concession of the Hypothesis offered by the foresaid Author. 3. That Roapines in the Blood is not occasioned by the commixture of a lesser proportion of Sulphur with a greater of Acid Salt.

Gainst what is asserted in the two last præceding Chapters, nothing of moment can be sarther objected, than the authority of our Oxonian Author, who for his learning, concise, smooth and elegant mode of Writing, may justly be characterized.

racterized the English Fernelius, &. steeming withall, that he hath in some fense surpassed Engalen, Salomon Albertus, Wierus, Sennertus, and the reft, that have treated on the Subject of the scorbut; and among those his other superlative qualifications, I must also take notice of his Modesty, not peremptorily afferting, but like a Cartelius affirming only a probability of that, whereon his whole subsequent Discourse is grounded as its Balts; Tract. 2. de scorbuto, Edit. Austerd. fol. 230. where the words run thus, It's probable, that the Blood in the Scorbutic affection is a tered, in a manner not unlike Wines, that grow Rancid or Roapy, as oft as they are overheated (that is over-fretted) for this is an Argument, that that Disease doth not depend so much upon Dregs, mixt with the Blood, as on a babitual intemperament of the Blood; because a Radicated Scorvey is fo difficultly cured, and sometimes never. Moreover it may be stated, that the intemperament of the Blood, which is the parent of the Scorvey, is two-fold, as it is in Wine, namely Sulphurous and Salin, and

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and Salin and Sulphurous. The whole Theory of the Scorvey is by the Author fore-mentioned briefly fummed up in those few lines, which to examine, is the chief affair of this Chap-First, He tells us, It's probable; But why is it probable? Because probably it feemed fo in some inconsiderable little Analogies and Resemblances: I may as well affirm, that it is probable, his Horfe is a Mare, because viewing him at a distance, he seems like one. Certainly, he that by too much stretching of the Cloth, endeavors to make all forts of Habits and Shapes out of it, must necessarily make a very incongruous Suit. This our Author hath practifed in most of his Tracts, abstracting Notions from Wine to illustrate his Theory of Diseases; as first in relation to Fevors; Because Wine is apt to be fretted, it's probable the Elood is also subject to a fret; whence a necessary conclusion is drawn, That the Blood fo fretting is either a Fevor, or rather the cause of a Fevor; but A probabili ad neceffirium non valet consequentia. Neither doth the similitude quadrate, the one being

being a derivative from a Vegetable. that naturally is dispoted to the forefaid alteration; the other from a Vive Animal, that when declining into a Fevor, is præternaturally affected. Moreover this fretting quality that Wines are incident into, is only of one kind; but the frets or fevors of the Blood are various and very different, as Quotidians, Tertians, Quartans, &c. Secondly, In relation to Convulsions, Because the Blood is disposed to fret in all the Vessels of the Body, it's probable, that in the fretting of the Nervous System, it doth impel heterogeneous Copula's and Explosive Particles into the Liquor Nervosus, and irritate the Nervous Systeme to an explosive motion, through which a Spasmodic affection and a præternatural Diathelis of the Brain, are occasioned. A pretty kind of Rhetorick, exchanging the old fignificant terms, into those that are obscureand aquivocalshowever these Probables might very well be admitted, especially being garnished with those pretty affected Phrafes; provided the Phanomenon and resemblance were omewhat more parallel.

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lel, and conform to Experiment; from which that they are infinitely different, I shall particularly instance in the comparison of Rancid and Roapy, or rather Scorbutic Wine (tor fuch he would have it to be) with scorbutic Acid and Scorbutic Lixivial, and Saponary Blood. That Wines by overfretting become rancid, is agreed on by all Wine-Coopers, which in their ufual phrase, they do not term rancid, but fay, It tastes of the fret, that is, Fuliginous, Empyreumatic, and Piquant, but not Acid; neither when they are over-fretted as much as they can be, do they immediately taste otherwise than what is set down. Their Cure is performed, as he sets forth, by being drawn off the Lees; which in a plainer way is to be understood thus; if it be observed, that Wines are inclined to fraquent frettings, or over-frettings, as all Wines are in the Summer season, especially if lying in a warm Cellar, to prævent the former, they endeavor to cool the place, where they lie, by stopping up all the Lights, and oft dathing cold water over the Floor. The later, viz. Their aptness K 3

aptness to over-fret, is remedied by pouring a proportion of new Milk to the Wine, or Ison-glass dissolved, or other materials that are impowered to appeale, allay and sweeten the heat and fury of the Sulphurous Spirits; but when Wines are absolutely overfretted, then indeed to draw them off the Lee, is the next remedy. cause of an over-fret or rancidness, he afferts to be an imbodying or cogulation of the Sulphureous particles with the Salin, so as the former exceed the latter in proportion. This Ætiology may eafily conduct the Reader into mistakes, supposing the Constitutive Principles of Wine, viz. The sal, Sulphur, and Mercury, to be distinctly contained therein, whereas it must be conceived, they are so intimately camented together in their minimal particles, that there is not the least drop, but contains the foresaid principles in its least individual physical particle, so that you are not to imagine, that in Wine, that is thus declining, the Sulphur swims in one part, the spirits in another, and the salt in another, but that the Subtiler Salt, Sulphur, and Mercury by

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Mercury, being united into one, do abscede from the grosler, into whose room and cavernicles external heterogeneal principles fucceeding out of the ambient air, occasion such various alterations, as render the Wine rancid, roapy, &c. Those Heterogeneous Corpuscles, if they are sulphurous, as in the Summer feafon they generally are, then they alterate the Wine into rancid; if more gross and falin, as at other feafons they are, it becomes roapy. But Wines being fubject to these alterations in all Climes, and Humane Bodies onely in some particular forts of Air, which therefore (together with a vitious dict) render the Diseases thereof Endemic; this alone is an Argument sufficient to evince the Alterations of the Blood and Wine not to be comparative, and confequently the simile to be diffonant. Secondly, Suppose the Simile allowed in Fevors, that as Wines fretting are indued with an intense heat, through the exaltation of their sulphur, fo the Blood fretting is attended with a dyscratic or intemperateheat, which for the prasent shall alfo K 4

also be allowed the name of a Fevor; then consequently the Blood must be deemed Scorbutic, because rancid; for Wines during their fretting are ever rancid, and taste of the fret; and so all compounded Liquors, as Beer, Ale, Metheglin, &c. whilst they are working, are rancid.

5. 2. The absurdities that follow the Hypothesis, are, I. That there is no moving living Creature, but is troubled with the Scorvey in one part or other; for whilft the Chyle is fermenting in the Stomach, or the Blood fretting in the Vessels, which according to the dictates of Fermentators happens at all times, they become 2. In France I find Fevors more fraquent, than in any other Countrey, which in the fense of my Author are all attended with fretting, and very probably some with overfretting; yet I could never observe any there afflicted with the scorvey, and if they are, I am certain they have no proper name for it in French. 3. That all Heats, Spots, Blotches, and Pustles, that burst out into the Face and r;

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and ambient skin, upon a fretting of the Humors, are Scorbutic Symptoms, pag. 234. l. 3, 4. which many Wine Drinkers are subject to in many places, where the Disease and name of the Scorvey are as little known, as the Man in the Moon. 4. That the fore-mentioned Scorbutic Eruptions, are onely fafely cured by Remedies, that demulce and lenifie the incongruous Ferment (as its stiled fol. 340. 1.18. which is expressing an ignotum per ignotius) fuch are Starch , Gum Arabic, Gum Dragant, &c. Thefe I am affored, never yet removed Scorbutic Eruptions, I cannot tell what they might operate at Oxford, and the Market Towns about it, where Scorveys are not fo numerous, as to abstract observations from them, sufficient to teach the world a new Dodrine of Scorbutic Dyscrastes, and Copula's. But this I dare declare for a truth, that real Scorbutic purpre, and yellow, some red Blotches, and Pustles, I have removed, and known others to do the like, onely with Antiscorbutic Volatils ; which manner of Cure doth in no

no wife fquare with the Notion of Rancid blood. However it must be affented, that many Eruptions, such as are recited in pag. 234. have been extermined by Contemperative Medicines, and Bleedings; but then they were not of the genuin Scorbutic iffue. In summa, admisso absurdo uno conceduntur mille. Wines that have been disturbed by an Overfret, do seldom long continue only Rancid, but after a short interval, are incident into a Patrid Acid, far different from Vinegar, and in that particular, may more exactly square with Scorbutic Blood; but it is not from Emplastic Lenients these Wines rethe least Rectification, for through them they are rather rendred far, worse. For the removing this fort of dyscrasy, Coopers experience the scenting the Cask with Brimstone, to be very effectual in manner following; They dip a Linnen-rag into melted Brimstone, which being grown cold and coagulated on the Cloth, is kindled into a flame, and hung through the Bung-hole into the Cask, until

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until the flame be burnt out, and upon that the Bung-hole is stopt up close again; for the same purpose Lime, burnt Allom, and other Materials, that are prægnant of an Alcalions Salt, are commonly used. 5. Upon the concession of the Authors Rancid Hypothesis, the Blood of Scorbutics of that degree, ought to appear smoaky, Sooty, Empyreumatic, not eafily Coagulable; on the contrary, it's observed Acid, Coagulable, Ill coloured, &c. I will conclude this Branch with a Caution, That all Innovators ought rather to Demonstrate their Notions a Posteriori, that is, they ought to Invent and Illustrate the Cause, by the Effects and Symptoms, and not to invent Notions of Causes, and by their Virtuality, or by what they probably feem capable to act, to affign their Effect; for that is oft contradicted by Experiment.

6. 3. The other Branch falling under our confideration, is the Koapines of Wines, wherein the Coopers generally observe a Gradation of Alteration; for first they begin to Pall, and

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and grow Flat, next they fall into Clots and Lumps of Gelly, and then they fay, the Wine drinks tender; at last, their Clots running into one, causeth the Wine to become Roapy. This the worthy Author affirms, is occasioned by the association of a lesser proportion of sulphur, with a greater of Acid Salt, or Tartar. It's an Universal Remarque, that Sulphur and an Acid Salt, without some o. ther Intermedium, that is amicable to both, are infociable; for affuse a menstruum purely Acid (as Rain water acuated with Oyl of Vitriol, Salt Nitre, &c.) to Sulphur, and digest it ad Infinitum, no Tincture shall be Extracted, but upon the least digestion with a Lixive, or any Unctuous Liquor, the sulphur yields its whole body, and entirely unites. 2. It's averred, pag. 234. 1. 31. That Roapy Wines are reduced by fixt Alcalies; which on the contrary, I know some that arrive to their Mark, by dissolving Roch-allom into them, that by all is agreed to be an Acid, and consequently doth subvert this Roapy Hypothesis. 3. The blood of those Scorbuticks, that contract

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tract their Distemper on a long Voyage at Sea, must be allowed to be either Rancid or Roapy. That it's the latter, the Symptoms mentioned Tract. de Scorb. pag. 234. l. 21, 22, 23. declare, viz. Cutaneous Eruptions. Sloath of Limbs, Difficulty of Breathing, &c. with which Scorbutic Seamen are sufficiently infested. The remedies used successfully by them are Acids, viz. Juice of Limons and Oranges, Tamarinds, Spirit of Salt, &c. on the contrary, they experience Spirits of Scorvey-grass, of Sal Armoniac. and others of that nature Detrimental. The Argument collected hence a Juvantibus, which are Acids, evinces their Blood to be Alcalious and Lixivial. So that I may fafely conclude, that our Authors Hypothesis is not only Erroneous, but too fcanty, fince it only appoints Contemperatives, and Volatil Alcalies for Remedies; and those being mis-applied (as too fræquently happens) are unpowered to render the Disease far worse, and provect it into a Terminative Scorvey. 4. I discover a great Contradiction, in illustrating some Alcalions and Lixivial

vial Symptoms, to proceed from Acid causes, viz. Pendulous Blood, which though not agreable with his supposal, he afferts that the lixivial parts abscede from the Blood, by being dissolved in the serum, having quite forgotten his Pendulous Acid principle. Thus I read, pag. 256. in Sign. 8. the Ætiology of Lixivial Urin expounded, which Paraphrase is no where received, but in the Latitute of 51 : 5ly. To evade all Objections, and to render Notions more Plaufible, his Discourses are observed, to be armed with a Quinary number of Principles, viz. Spirit, Sulphur, Salt, Water, and Earth, by which to Illustrate the Nature of Bodies, will prove as superfluous, as (in his own phrase, pag. 3. 1. 28. Diatr. de Fermentatione) to say, a House doth confift of Timber, Wood, Stones, Brick and Lime. For a Spirit being a composite of Salt, Sulphur, and Mercury, fignifies it felf to be a Principiatum, and not a Principium. For proof, I offer the most Alcolized Spirit of Wine, which in the process of Spiritus Calcis, being oft abstracted from Calx Vive, its Volatil Salt (which forleid

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formerly I have demonstrated to be Fixt Salt, rendred Volatil by the admixture of sulphur) is refixt, and detained by the Alcali of the Calx, fo that at last nothing passes the Alembic, but a pure Lymph; whence it's evident a Spirit is a Compound, and no Principle, which ought to be simple. The next multiplication of Principles is the stating Earth, and Salt, different Elements, which in effect are realiter the fame, though of distinct Nominati-Earth is an immature Salt, which by Digestion easily passeth into a Salin body. The Terra damnata of Vitriol, affords an indubious Argument for Evidence: This though very well washed from the Fixt Salt it contain's yet being exposed to the warm Sun for some long time, and then washed over again, yields a confiderable quantity of Vitriolat Salt, which that it is not attracted out of the Air, but engendred by Digestion of its Substance, appears by the diminution of weight of the faid Terra damnate, after it is washt. So that the difference between salt and Earth, is no other than between Stone and Brick,

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The Disease of London, or

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or a Heterogeneous Copula, and an Incongruous Ferment.

CHAP. XI.

Containing Practical Obfervations Præliminary to most Scorveys.

1. Acute Symptoms præcurring an Acid Scorvey. How it is Originally engendred. 2. Mixt Symptoms, partly Chronical, and partly Acute, præcurfors of an Acid Scorvey.

3. Chronical prævious Symptoms.

4. That those prævious Ebullitions mentioned in the præcited Observations, do not render the Blood Rancid. The Notion of Rancid Blood dangerous in Præcice.

of I. The Practical Observations which I do here propose, will render Obvious to you, how the Blood declines into a putrid Acidity. It is a remarque I have at sundry times made, that some Bodies, before they

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expressed any Sign or Character of being molested with an Acid Scorbut, undergo a smart Ebullition of the Liquors in the Vessels, depending upon an accension of the Spirits, and deflagration of the Bituminous Parcicles of the Plood, whereunto fome Catarrh, Rheumatism, Lassitude, Pain in the Head or Bowels, or fome other Symptoms, are attending, which render it dubious, whether this fort of Fever be Essential or Symptomatick; however Antifebril Remedies, as Bleeding, Purging, Contemperatives, and Sudorificks are prascribed, the fuccess whereof in the space of three or four dayes, commonly amounts to the abatement of the Fevor and other Symptoms, though not to a perfect Restitution of Health, the Patient for fome fhort time poslessing only the condition of a neutral State; hereupon manifest Scorbutic Symptoms begin to take up their quarters with him, as Laffitude, Sloath in Mo ion, Difficulty of Breathing Indigeston of Stomach, Interrupted eleeps, and Diflurbed with Dreams, Spots, Blotches, and the like.

6. 2. The content of the pramifed Paragraph I do affirm to be the Morbifique transaction in some, though in others I likewife observe, that the præceding Ebullition, or Tumultuation of the Blood is not fo vigorous, as to cause them to think more, than that they are only a little out of order, and so the Juices of the Vessels detumefying, leave them in a kind of neutral state; which manner of Ebullition and Intumescence oft returning, increafing and decreafing, doth at last result to the same Effect, as if it had been as smart, as what is above described. These are certain and true Observations, any Physician may make on Bodies, before the Scorvey declares. A third Observation I shall fubjoyn, after the Explication of the two former. By these pravious commotions the Blood is grown extreamly Turbid and Disturbed in its parts, mixture, confistency, ntour, pour, and other qualities, like Water in a River, that grown Muddy and Thick upon a Storm, raising those Impurities, that lied on the bottom. Now

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Now the faculencies and Acid tartarous Humours, that by stagnating in the Vessels of the Mesentery, and other remote parts, being raised, and commixt with the Mass of Blood, choak up and extinguish the spirits and Volatil Salts, damping withall the flaming of the Bituminous particles, upon which the Ebullition ceafeth. The cause of these Ebullitions is the faltnef, induced into the Humours by a Salin Air and Diet, which obtaining a power of condensing, and congregating the Spirits or Volatil salts, and fulphurous or bituminous particles of the Blood, cause an accension of the foresaid Volatil salts and sulphurs, whereunto by constipating of the Pores the groß Salin Air doth also very much contribute. In this conflagration the Volatil Salts are in a great part diffipated and confumed, the other part stifled, choakt, or extinguisht by the rifing of the Acid falin drege, whereby the whole Mass is not only turned Acid (how the diffipation of the Volatil Salts occasion an Acidity, you have read before)but grows putrid L 2 Acid

Acid by the commixture of fuliginous acrimonious Salts, that through the foresaid Ebullition and conflagra. tion are occasioned, and through the constipation of the Pores repelled into the Blood. The cause of the latter Observation may easily be collected, from what is here fet down touching the former.

s. 3. A third remarque taken from Scorbutics is, that many gradually and infenfibly without any fuch prævious Ebullitions, as are above mentioned, undergo an alteration in their Temperament and Faculties; first observing a floath in their Limbs, naufeous spitting in the Morning, an ill brass taste in their Mouth, crudities and imbecillity of Digestion; afterwards do fucceed Spots, Laxity, and Discoloration of Gums, stink of Breath, and so the rest in order. The Cause of this fort of Morbifique progress is the blood, gradually declining to a putrid Acid, in the same manner as hath been explained in one of the fore-going Chapters.

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vations feem to have fome refemblance to the nature of Kancid Blood, occafioned by Fretting or Fermentation, and the manner of Cure appointed, in the oft cited Treatife de scorbuto. to be performed by Demulcers of the Blood, as Phlebotomy, and contemperatives; upon a more deliberate confideration, you will conclude their difference almost contrary to each other; for, I. All Ebullitions. especially that expressed in the Illustration of the foresaid first Observation, are not Fermentation; 2. The worthy Oxonian Author infers all Rancid Blood Scorbutic, though it be still on the Fret, which is greatly erroneous, the scorvey being a Chronic or long tædious Disease; this a prævious distemper, that is foon removed, or at least altered into a contrary Intemperament, viz. From an Acrimonious hot, to an Acid cold Disease. 3. The foresaid Notion is highly dangerous, and oft proves fatal, in deriving thence a Method of Cure; for forming Indications, that this being a hot fulphurous Distemper, lenient and cooling Remedies are inindicated, which if long continued after the Fermentation is quieted, and an Acid disposition introduced, do render the Disease incurable.

s. 4. It is only in some, that this Ebullition is a præcursor to the scorvey, whereas the Notion of Rancid Blood doth inser all scorveys, that are not depending on pendulous blood, effects of an immoderate Fermentation.

CHAP. XII.

Declaring a further Illustration of a Saponary Leg-Scorvey.

- 1. The Symptoms of a Saponary Leg-Scorvey. 2. Proof that the Bituminous parts of the Blood, do easily unite with the Fixt Salt. Pendulous Blood is not miscible with Acid Salt.
- 6. I. Have formerly observed, that an Acid Scorvey, upon a long con-

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continuation, changeth into a Saponary Scorvey, which as was hinted before, is the Cause of some Leg-Scorveys, whose Symptoms, are Inflamed, Tumefied, Corroding, Phagedænic, Cancerous Ulcers, Hot burning and pricking Nocturnal Shin-pains, fræquent glowing of the Calves of the Legs and Plants of the Feet, an Eryficelas Phlegmonodes of the Legs, falin pungitive Rheumatisms and Defluxions to the Periostium of both the Fossils; besides a saturated Lixivial Urin, a fuliginous fowl Stinck of the Body; the Blood when extracted by Phlebotomy appears of a deep inflamed Subpurpureous aspect, besides many other Symptoms, all which to any Judicious Phyfician are sufficient Testimonies of an Alcalious constitution of Humours. this is not all; for the Blood in this Case is not only Alcalious, but Saponary, as now will be made apparent to you. There being a large proportion of impure Sulphur, or groß Bituminous Particles, mixt with the Humours in this degree of scorvey, the Alcalions fiery Salts do eafily at-L 4 tract.

tract, Colliquate, and Unite them to their own Particles, which abforbing the Serum in a great measure, must needs render the Blood thick, cohering, and a little obductible.

6. 2. That the Bituminous parts of the Blood are so apt to be united to the Fixt Salt, is evident from the ready commixture of Tallow, Train Oyl, or other unctuous bodies with Pot-ashes in the Composition of Soap, from the resemblance whereunto (as formerly hath been intimated) I have termed the fore-mentioned constitution of Blood Soapy, or Saponary. The same Promptness of Unition several other Chymical Præparations do likewise confirm, as in particular; the Ebullition of Sulphur with the diffolution of Salt of Tartar, Fixt Nitre, or a Lixive of Calx vive, in the process of Lac sulphuris; also in the Praparation of Hartman's Su'phur of Antimony, where the Antimony being fused by the violence of a ventous Fornace, and instilled into the deliquious Oyl of Tartar, its Sulphurous parts are immediately Imbodied with the Alto

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Alcali of the foresaid Tartar. Whence we may plainly Collect, that in our Authors Pendulous Diathesis of the Cruour, which by him is supposed to be Acid, there is no probability of their ready Coalition. And after all, I must tell you, that the Blood in that sort of Scorvey, which is not Rancid, as he terms it, is not absolutely Roapy or Pendulous like Syrup, Barbadoes Treacle, or Therebinthin, as the Oxonian Professor intends it, but far different.

CHAP. XIII.

Of the Causes of Scorbutic Symptoms.

1. The Cause of a Scorbutic Lassitude and Imbecillity of Limbs. That a Scorbutic Lassitude is not occasioned through a Fermentation of the Nervous Liquor and the Extravase Blood. That the Nervous Juices are not contrary to those of the Veins and Arteries. 2. The Cause of a Dyspnæa, or Dissiculty of Breathing. 3. The Cause of a Low, Quick, and

and Inequal Pulse. 4. The Cause of a thick Red Urin. 5. Of Spots and Blotches. 6. Of the Bleeding of the Teeth, and Hamorrhages. 7. Of Fainting and Palpitation of the Heart. 8. Of Erratic Fevors.

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5. 1. IN course I ought next to A. dapt these præceding Causes to their Effects, viz. Scorbutic Symptoms, in which I judge I shall not find that difficulty, or be Obliged to strain the former, to square them with the latter, fince I arrived to the Knowledg of them by the Observation of their Effects. I shall commence with the Explication of the Cause of Lasfitude, and Sloath of Limbs, as ordinarily the first budding in a Scorbutic Body. A Lassitude, Debility, and Sloath of Limbs, are Affections of the nerves, which originating from the marrow of the Brain & Back, must necessarily derive their Causes thence, unless we should conceive them naturally to draw in at both ends; but there being usually concomitant other Symptoms of an affected Brain, as Drowlines, Obtusenew of the Internal senses, &c. doth amply

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amply confirm, what is afferted. Wherefore the Blood according to the first Observation mentioned in Chap. 11. being affected with a rumultuation, the Spirits and Volatil Salts are inflamed. and rendred Acrimonious, which being the principal constituents of the Animal Juices, must necessarily prick the Nerves, through which they pass, and incommode the Nervous parts, to which they are transmitted. As for the Imbecillity and Sloath of Limbs, also the obtusion of the Animal Faculties, they depend on the intemperature of the Animal Spirits, not being potent enough to perform their Offices with alacrity, to which their accustomed just Temperament is absolutely requifite. By the way you are not to apprehend here, that the laid Laffitude is occasioned through a Fermentation, hapning upon the appulle of the Nervous Liquor (rendred praternaturally Acid) to the Articles, and there meeting with Lixivial Blood; for the constitution and temperament of the Nervous juices are not fo extreamly different from that of the Blood, as to be. contrary to it, which in this fort of Fermen-

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Fermentation or Ebullition is necesfary it should: I can conceive no more difference between them, than between Spirit of Wine and Wine, which former cannot be indued with any other qualities, than what it derives from the latter. And here it is, that trite Maxime is verified, Vitium prime coctionis non corrigitur in secunda, nec secunde in tertia. So that, if the constitution of the Blood in the Arteries be Acid and not Lixivial, the Animal juices must likewise be Acid and not Lixivial, as being engendred by a further digestion out of the said Arterial blood. Hence I argue, that Arthritic pains in the Scorvey do not proceed from a Fermentation between an Acid Nervous Liquor, and Lixivial blood about the Joynts; moreover as you shall be further satisfied below, the Lixivial Salts, that are call forth to the circumference in an Acid Scorbut, do not partake of an Acrimony, or at least not so intense, as to excruciate the Limbs with those infufferable pains. But after all, the indication defumed in this case from the Nervous Liquor, affigns an Alcalious MediMedicine, and that which is collected from the Lixivial Blood, indicates an Acid; an absurdity not to be admitted in Physick, that one and the same Disease should require two Medicines

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Neither can I affent to that opinion Tr. de Sc. p. 250. l. 25. which afferts the cause of a Spontaneous lassitude and weakness of the knees and legs, to be an infarction of the pores of the Musculs with Excrementatious humors, through which the Animal Spirits are obstructed in their passage; for it is not observed, that there is any Tumor or Tension in the flesh of the said Musculs, but commonly hangs lank and laxe; on the contrary, where there is a real Tension and Tumefaction of the Musculs of the Legs, which some gross Bodies are subject unto, we do not find any other, then a small compression of the Nerves and Tendons, notwithstanding which, the Animal Spirits have their free influxe and refluxe, and the Limbs their sense and motion; wherefore if there be no obstruction or constipation in this case, much less in the other, and consequently quently it must be the Animal Faculty and Loco-motive Spirits, being præternaturally affected, that are the occasion of these last fore-mentioned Symptoms.

5. 2. The Dyspnwa or difficulty of Breathing; that so oft is implicated with the scorvey, depends on the stagnating of groß Acid Blood in the Vena Arteriosa or Arteria Pulmonalis Arteria Venosa or Vena Pulmonalis and in the Pores of the Parenchyma of the Lungs; for every systole propelling the streams of Blood into the forefaid Artery faster, than it is received through the Pores of the Parenchyma into the Lung Vein, the Lungs must necessarily be stuffed, swelled up, and confequently much oppressed by the weight of this stagnating Blood. But that I may prævent you from lapfing into the fame error my Author is fallen into, it's convenient I acquaint you here with the meaning of Dyspuea or difficulty of Breathing; Respiratio Anhelosa, or short and thick breathing, or in the common phrase , short windines , Asthma,

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or improperly Phtylick and Orthopneas, or the worst and extream degree of Phtylick and their difference; for quibene distinguit, bene docet. In a Dyspnea the breathing is somewhat long and slow, with the sense of an oppression or weight, as is something kept the Lungs down. A Respiration Anhelosa is a quick and thick Breathing, as you may perceive in your self, after any smart Exercise, as Running, or Carrying a Weight, &c.

An Asthma is a thick and short breathing, accompanied with a whee-sing noise, and commonly also with a Cough. An Orthopnea is a long and slow expiration, and a quick catching (as it were) inspiration, attended with such a stifling, that the Patient is forced to sit upright, thrusting his Mouth up and gaping for Air.

A Respiratio Anhelosa is also fraquent among Scorbuticks, and is occasioned by a Putrid Acid Blood, that is (as I have told you before) Fuliginous and Acrimonious, by means of those sharp sooty steams it irritates, and prompts the Lungs to a quick breathing, to prevent stiffing, and to

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attract a clearer Air instead of those sooty Evaporations, which in some I have observed so copious, that their Tongue was covered with a black scum, not unlike what is fræquently taken notice of in continual ardent Fevors.

s. 3. As the Pulse in respect of quickness and aquality of motion, doth proportionably correspond with the Respiration in a healthful, and likewife in a morbifique state; so it doth in the scorvey, where in this degree it's quick, fræquent, and unæqual in motion, which is occasioned by the fame cause, viz. by Acid Fuliginous Blood, stimulating the Vital Faculty of a quick motion, and imposing a necessity on the Ventricles of the Heart to an expeditious explosion of the Acrimonious Crnor. The inequality of Pulsation depends on the unaqual mixture of the Blood with those Fuliginous steams (or Heterogeneous Copula's) that do fo unæqually vellicate the sides of the Ventricle.

5. 4. A ruddy and thick Urin is most

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most commonly an attendant of a Praliminary Scorvey, which is comprehended and specified in the two foremost Observations of Chap. 11. the production whereof is a diffolution of those deflagrated Salts and Sulphurs in the Serum, which afterwards is pracipitated by the Putrid Acid, that's ever a sequel to the Scorbutique Ebullition, and so abandoned to the Kidneys and Ureters; but as the faid Ebullition doth onely occasionally happen now and then, so the fore-mentioned ruddy Urin doth onely appear on those occasions. For the greater part the Urin is turbid, and copiously saturated with a thick sediment, that is apt to furr to the sides and bottom of the Chamber-pot, being nothing else, but an excretion of crude indigested Tartar, or Acid Salt, from the Mass of Blood; if at some feafons the Urin appears thin and ageous, that may happen either thorow the potent coagulative quality of the acidity in the Blood, not separating the superfluous and excrementitious Tartar; or through some obstruction of the passages, leading to or from the KidKidneys, suffering the thin only to pass, and retaining the thick. Moreover observe, that in those thick drabby Urins, upon some standing the gross sediment is apt to sinck to the bottom, leaving the middle clear and transparent, and a cream swimming on the top, which is nothing but the mucilaginous part of the Tartar, through its lightness recovering the surface of the Urin.

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6. 5. Spots and Blotches of feveral colours do ordinarily furvene a Scorvey, and are caused by a condenfation of the sulphurous parts of the Blood, that are deflagrated, and Volatil Salts amortized through the Acid, the pores of the ambient Skin or Cutis, where they are deposed or deferted by the Acid Blood, withdrawing it felf from them, and through its penetrative faculty infinuating into the Veins, returns by the circulative motion into the Body; whereas the others being fo much obtufed, are rendred incapable of reverting into the Vessels. These Spots and Blotches are not dolorous, because the acrimony

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of the deposed Salts is obtused; their colour if red, they derive from the Sulphurous or Bituminous parts of the Blood, mixt with the Volatil or Amortized Salt; if yellow, from an admixture of part of the Acid Salt, condensed and obtused by the reaction of the said Volatil Alcali, which now mentioned obtused Acid, if lest commixt in a greater proportion with the Alcali, and with a lesser proportion of the Bituminous Particles, render those Blotches of a livid tincture.

The production of Scorbutic Puftles and Botches differ from Spots and Blotches in this only, that the Salts in these latter are diluted, or dissolved in some part of the serum, which in the former are more condensed and coagulated. Some of these are without pain, others are painful; the latter hapening, because the acrimony of the foresaid Salts is not totally ob-

tufed by reaction.

6. 6. The bleeding of the Teeth, fræquent Hæmorrhages of the Nose, and Hæmorrhoids, also immoderate Menstruations, and sometimes a bloody M 2 Flux.

Flux, are Symptoms of this Disease. occasioned through a serous Acid Blood, rendred acrimonious and corroding by the Imbibition of fuliginous Salts, corroding the termination of the Vessels. Note, that in most Scorbutics are two forts of Blood, viz. A großand fæculent Blood, coagulating and præcipitating it self from the more ferous and fluid parts. The groß Blood floats about the Entrails and lower parts, and is 29 Trippon @ ; fo the other being more fluid and light, is more apt to be audifora , and to stream up-Those intollerable Gripings wards. of the Guts without a loofness, which Scorbutics here are fo miferably tortur'd with, are likewise occasioned by the same corrosive Humors, or rather nitrous acid Juices, infesting the nervous, and confequently most sensible Tunics of the small Guts. That the cause of these Autumnal Epidemic Gripings of the Guts, the Inhabitants of this City are so much exposed to, is a Nitrous Acid, appears partly by the Procatarticks, viz. Liberal Drinking cold four Small-beer, when they are heated by the aftuating Rays of the San,

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Sun, going cool in their Clothes, and lying half Naked in Bed, immoderate eating of Horary Fruits; and partly by the Cure (Argumentum a Juvantibus) Volatil Salts and Aromatics, not only giving ease, but off removing the Distemper. But that these Acid Juices should distil from the Brain through the Nerves, or be the Liquir Nervosus rendred Acid (as our Learned Author asserts in a late Treatise intitled Pharmac. Irration. Y and all this while the Brain continue unaffected with any Symptom, Non credo.

Whence fraquent Spitting, Laxity, Discoloration, Corrosion, and pain of the Gums and Teeth do proceed, hath been declared formerly.

§. 7. The Fainting and Palpitation of the Heart is caused by fuliginous acresteems, suffocating the Heart in the former, and Vellicating its Ventricles in the latter.

From what hath been already explicated, may easily be Collected the cause of Vomiting, Nauscoufness, Punctorious pains of the sides of the Breast, tearing pains of the Stomach, Loosness, Head-ache, &c.

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ordinarily are observed to attend the scorvey, are oft occasioned by a copious quantity of Fuliginous Salts, that have been Deslagrated, and by their long continuance have attracted some proportion of impure Sulphurs, and so take slame again.

CHAP. XIV.

Of the Description of the Scorvey.

1. The Description of the Scorvey,
2. Whether it be an Occult Disease,
or Morbus totius substantiae. 3. Whether it be a Similar or Organical Disease.
4. Which is the part Primarily and Principally affected.

6. I. The scorvey being feated in feveral parts of the Body, occasioned by various Causes, and

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and attended with a train of all manner of Symptoms, appears as if it had no certain Effence, and confequently is not capable of a description so Pathognomonic, as other Distempers, and therefore you must be contented with fuch as can be given of it, viz. Scorvey is an Universal, Multiform, Variable, Endemic, and Contagious Disease of all the parts of the Body, particularly of the Stomach, Spleen, and Liver, occasioned by a Salin Blood, and attended with a Cachexia of all the parts, Spontancous Lassitude, Pefanture and Imbecillity of the Limbs, but especially of the Knees, difficulty of Breathing, fore and lax Gums, spots, Blotches, Puftles, &c. The Univerfality of this Distemper consists, 1. In Attaquing all People generally more or lef, inhabiting a Scorbutic clime. 2. In a Præternatural disposition of all the parts. It's Multiform, because it assumes all shapes of Diseases, there being scarce any Distemper, which in one Symptom or another, it doth not Moreover, it's a Cold, resemble. Hot, Dry, and Moist Disease, as it's Symptoms do plainly demonstrate, M 4 viz.

viz. Inflamed hot Pustles, Erysipelas, cold Oedematous Legs, moist Rheumatisms, dry Scabs, &c. It's also variable in all manner of respects, I. Variable in the Subjects, there being scarce two in a Hundred, whose Symptoms are alike. .. In the parts affected, being commonly chiefly rooted in the Stomach, fometimes in the Spleen, other times in the Liver; moreover, per utta's and oft transferring its head quarters from one part to another, and exchanging the whole Syndrome of Symptoms into another quite different, and also in progress of time passing from an Acid into a Lixivial and Saponary Scorvey, or from a Mouth-Scorvey, into a Leg-Scorvey, and thence into a Joint-scorvey, or sometimes into a Terminative Scorvey. That this Distemper is endemic (Tam ratione aeris quam aqua) hath been declared elsewhere; and certainly it is Contagious, fince most Endemic Maladies are fo, there being ordinarily Miasms, or perfect Scorbutic seminaries transported, by means of the Vehicle of the air from one Body to another, which obtaining a power of producing their like out of the

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the humours of fuch Bodies, into which they are transferred, engender an absolute scorvey, in a far less space of time, than if it had primarily took its rife in that manner, I have heretofore explained. All the parts of the Body and Humours being thorowly infected with the Scorbutic Seminaries, the Spermatic parts cannot be free, which must therefore also render this Distemper copernie and Hæreditary. I. By means of the semen of the Parent, and its plastic faculty. 2. Of the Uterin Blood. 3. Of the Milk affuged by the Infant, whence we may term it sv'rrpopas. 4. Of the Contact (Si Tabile) of the Lips of the Mouth, and Ambient Skin of the Body, whereby the Scorbutic miasua is transferred to the Child, by being Kissed or Hugged by the Parents, and lying by them in Bed. But because you shall not only be fatisfied with my Information, give me leave to acquaint you what Platerus, the Learned Professor of the fore-going Century at Bafil, reports of it, pag. 355. This Malignant Disease when it first discovered it self in

in the Maritime Nothern parts, and proved Contagious, gave me no small suspition, That from remote Countries, which these People that cross the Seas do in our Age discover, almost to the extream Borders of the Earth, and where possibly it is similiar; it was Transported sirst to these places that are near the Sea by Seamen.

6. 2. Definitions or Descriptions are rarely so perfectly made in the Art of Physick, as to rescind the occasion of all Objections from Cavillers, and therefore to pravent that Risk, I will be Opponent to my felf, in forming feveral Doubts and Objections against the Definition by me proposed in this Chapter. First, I offer this Quastion, Whether the scorvey be a Manifest or Occult Disease, that is as Fernelius doth term it, a Morbus totius sub-Stantie? Some that Argue from Authorities, probably may offer the Sentiments of Platerus, Sennertus, Steeghius, and others. The first of these asserts the scorvey to be an Occult Malignant, and absolutely Venomous disease. The second gives us a definition

tion (which as I faid before, the scorvey is not capable of, as having no essential difference) in these terms. The Scorvey is an Evil and Occult quality, or disposition, impressed on the whole Body, but chiefly on the Bowels, that are destined for Nutrition, arising from a gross Melancholy Humour, that's Ichorous or Serous, and corrupted in a peculiar manner, or, saith he, It is a certain Evil Nutrition, or Ill Habit of the Body, &c. The last expresses it, to be a Moist distemper of the Spleen, occasioned through the putrefaction of the thick Humour, which the Spleen delights in. The formost Opinion may eafily be Refelled, fince the Symptoms of the scorvey may be plainly deduced from Causes, that are obvious and manifest. 2. All Venoms do immediately affaffinate the Heart, dissolve the Vinculum vita, and have this Qualification appropriated to them, that they are only to be Expelled by their Antidotes; but common Observation tells us, that the Scorvey moves gradually, is more ordinarily seated in the Spleen, or Stomach, than the Heart, and is Cured by Medicines, dicines, that Operate by a Manifest, and not Occult quality, namely such as are of a subtil igneous and colliquative faculty, as Scorvey-grass, Watercresses, &c. The second Definition favours much of the first, and renders it a morbus totius substantia, which that it is not, appears from the former Answer. Steeghius will have it a Moist disease, and afferts Melancholly a Drying humour, the continent cause; which however per accidens may produce a Moist distemper; but waving that, it is most certain, that in many Scorbutics the Spleen is not affected, and therefore cannot be described to be a Moist distemper of the Spleen.

§. 3. The next Quæry is, Whether is the Scorvey a Similar, or Diffinilar Disease? Some that do allow the Scorvey a Disease of very ancient date, adjudge it a Dissailar disease, and in particular a Disease of Magnitude, viz. A great Spleen. Pet. Forestus asserts it a Compounded disease, and not Simple. The fittest answer to this in short is, That primarily it is

a similar, and secundarily a Dissimi-

6. 4. The third Quastion is, Which is the part Principally and Originally affected in the Scorvey? Horstins states the Spleen the part affected, others the Stomach only, and many the Stomach, Spleen, and Liver. If in some it be observable (as it is) they are troubled with luxuriant glowing Gums, and vacillation of their Teeth, without the concomitance of other Symptoms, in all probability it's the Stomach is the only part affected, there appearing no Sign or Symptom of any other entrail, that's affected. On the other hand, if no other Symptoms Emerge, belides blewishScorbutic Pustles or Blotches, it may rationally be concluded, no other part is affected but the Spleen. It has been also observed by Forestus, and Rensnerus, that the Spleen and other Entrails have not appeared much affected in some deceased Scorbutics, but the Liver chiefly, wherein was observed a great discoloration, and dissolved unity of its substance. Whence we may deduce, that

that a Scorvey that's contracted by a Salin Diet, the Stomach is originally and primarily affected, in that which is occasioned through a Salin Air the Spleen, but after some continuance they become all parts æqually affected.

CHAP. XV.

Of the Differences of the Scorvey.

1. A distinction taken from the Growth of the Scorvey. 2. From the manner of its Origination. 3. From the parts primarily affected. 4. From the Internal Cause. 5. From the Concentration of Symptoms. 6. From Prædominant Symptoms. 7. From the Occultation of Symptoms. 8. From its manner. 9. From the place, where it reigneth. 10. That these Distinctions are of great Use.

Subjects that confift of a mutable Nature require exact diftinctions, which are to be defumed, 1. From e

1. From its growth, whence the scorvey is called either Praliminary, Liminary, Recent, Inveterate and Terminative. A Praliminary Scorvey, I must confess, is very Improperly named a scorvey; for being absolutely considered in it self is no scorvey, but in a Relative and Subsecutive way I have Imposed that Denomination only Doctrine gratia, to express the root whence a commencing scorvey doth spring and bud This being præmised, I intend those Ebullitions comprehended in the Observations that are Delineated in Chap. 11. for a Praliminary Scorvey, because they præcede, and are generally Preliminary to a Scorvey. A Liminary Scorvey is that, which upon the quietation and subsidence of a Preliminary Ebullition buds forth. A Recent Scorvey is a confirmed Scorvey, but of no long standing, and is answerable to the augment of the Distemper. An Inveterate Scorvey is a Distemper of a long continuance, and alludes to the state of the Disease. A Terminative Scorvey is that Difeafe whereinto it doth pass, and puts a termination to the Distemper and Life also; as a Scorbutic Dropsie, or Consumption, &c. for it is such a fort of Disease the scorvey doth at length terminate into, and so prove Mortal.

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- §. 2. From the manner of its Origination, in which respect it's either Hareditary and Connate, when it's derived from the Scorbutic indisposition of the Parents; or Adventitions, which is engendred some time after one is Born; and this is twofold, for it's either Contagiously adventitions, when gotten by Infection, or Non-naturally Adventitions, that is, when contracted through fault of some of the Non-naturals, as Salt diæt, Salin Air, Melancholy, want of Stirring, &c.
- §. 3. From the parts Primarily and Principally affected, this Difease is termed an Hepatic, Splenetic, or a Stomachic Scorvey.
- §. 4. From the Internal Cause, it's stilled either an Acid, Lixivial, or Saponary Scorvey.
 - 5. 5. From the parts where the Symp-

Symptoms do concentrate and clot together, it derives the name of Month-Scorvey , Leg-Scorvey , or fognt-scorvey; By the way I must give the Reader this Advertisment, That in a Mouth-Scorvey the Symptoms are not folimited, or circumscribed, as to extravague no farther than the Mouth, but that some slight superficial Symproms of the other kinds are also attendant, viz. A great weakness or feebleness of the Knees, spots about the Leg: and Arms, Blotches in several parts, especially in or near the Groin, Ambulative glancing pains about the extreme parts, &c. So likewise in a Leg-Scorvey some Symptoms of the Mouth and other parts are remaining. So that this diffinction doth chiefly take its denomination from the greater number of urgent and remarkable Symptoms, that haunt the Mouth, Legs, or Joynts.

6. 6. From some prædominating Symptoms the scorvey oft takes a particular Nomenclature; from an Asthmatick scorvey; upon the same account it's stilled a

Rheumatic Scorvey, a Torminous or Griping Scorvey, a Diarrhwous Scorvey, an Emetic or Vomiting Scorvey, a Flatuous Hypochondriac Scorvey, a Cutaneous Scorvey, viz. of Spots, Pufles, Blotches and Pimples, an Olcerous Scorvey, a Dolorous Scorvey, &c.

- 5. 7. From the occultation or hiddenness of the Symptoms within the Body, it may be called an inward. hidden , or Latent Scorvey , which doth not manifest it self in Symptoms that are external and evident, as Spots, Mouth or Leg Symptoms; but without the Concomitance of these. there is onely observable a Neutrality in point of Health, a defection of Appetite, fome fmall oppression of the Breast, a diminution of ones usual inclination to stirring, and some little hebetude or dullness of the Senses, &c. or a Manifest Scorvey, appearing in external Symptoms.
- g. 8. From its manner, it may be termed a Mild or Malignant Scorvey. From the Countrey or place where it reigneth, its called an English, or Dutch

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Scorvey; also a Sea, or Land Scorvey.

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§. 9. It is not to increase the bulk of this Tract, but the great use that may be made of these differences and distinctions, as you will in their proper places observe, hath been the occasion of inserting them in this Chapter; the truth hereof will manifest it felf, when you come to understand, that many patients are frustrated of their hopes of Cure, and some præcipitated to their Tomb, thorow the neglect and error in making a right distinction of their Disease, its degrees, and its various mutations, which fometimes is to a contrary diftemper; and it is here chiefly, that I prætend to be particular, whereas the Vulgar Hackney Physician neglecting the Journal of progressions in Maladies, followeth onely the common Tract of Method and Remedies, and therefore fræquently misseth his scope of restitution of health.

N 2 CHAP.

CHAP. XVI.

Of the Diagnostick Signs of the SCORVEY.

1. The Signs of a Præliminary Scorvey. 2. Signs of a Liminary Scorvey. 3. Signs of a Recent Scorvey. 4. Signs of an Inveterate Scorvey. 5. Signs of a Terminatory Scorvey. 6. Signs of an Hepatic Scorvey. 7. Signs of a Stomachic Scorvey. 8. Marks of a Splenetic Scorvey. 9. Notes of distin-Gion of an Acid, Lixivial, and Saponary Scorvey. 10. Directions to discover a Latent Scorvey. 11. The d fference between an English and Dutch scorvey.

6. 1. A Praliminary Scorvey is not onely discovered by præceding Scorbutic Procatarctics, but also by the Pulse and Urin, the former beating not so unaqual, as in continual putrid Fevors; neither is the heat fo pungent, but glowing only, that

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that is obtuse and fuliginous: the latter is commonly of a higher colour, than in an ordinary continual Fevor it can arrive to in so short a space of time, and very abounding in a groß ruddy sediment. Moreover the ebullition of Blood is of no long continuation, but in a few dayes is apt to fall and subside, unless provoked by the error of the Physician or Patient.

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6. 2. A Liminary Scorvey some do decipher by these four Pathognomonic Signs, I. A livid and deadih Complexion of the Face. 2. An itching deep redness of the Gums. 3. An Oppression of the Brest and Respiration, also of the Sides about the Bastard Rib. 4. A Painful Feebleness of the Knees. These we grant to be common Signs in an evident commencing scorvey, but not Pathognomonic, because they do not alwayes attend every Scorbutique; for I have met with fome, that without those Symptoms before-mentioned, have been disfigured with livid Scorbutique Spots, likewise some whose Mouth and ad-N 3

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jacent parts were affected, without the least sense of feebleness in their Knees, or Oppression of Respiration; Lastly, Those that are molested with a Latent Scorvey, are exempted from several of the prænumerated Signs.

To these common Diagnosticks must be added a fifth, A great heaviness of all the Body, and lumpishness or dulness of the internal and external Senses. 6. The Appetite in some is obtufed, in others it's fo much sharpned, that they are apt to covet more than they can digeft. 7. A Bezduniafiz, or the digestion of the Stomach somewhat impaired of its wonted vigor; as appears by a small heaviness and drowliness after Meat, and accompanied with Belchings and Winds murmuring downwards. 8. The Urin is less transparent, and grown a little turbid and drabby. 9. All these may be confirmed, by confidering the Procatarctic Causes, viz. Whether they have lived in a Scorbutic Air, or fed upon Salt Diæt, or by reason of Imprisonment, or other voluntary Confinement, have neglected all manner of Exercise, or whether they have

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have been under some occasional Melancholy, or whether some usual evacuation, as the Menstrua, Hæmorrhage at the Nose, or Hamorrhoids, Issues in the Arm, Neck, or Leg, or in any other part, be not suppressed. Or whether they are not splenetic or Hypochondriac; or have lately been troubled with a Quartan Ague: Or whether their Parents were not Subjected to the scorvey; whence it might be afteemed Hareditary; or laftly, whether they do not daily converse with Scorbutiques, whereby it might become Contagious. Confider also the Juvantia, and Nocentia, what things help them, and what hurt them.

s. 3. The figns of a Recent, or Augmented Scorvey, are, I. A Spongy swelling of the Gums, which upon the least pressure, or biting a piece of Bread, are apt to exudate Blood. 2. A great stink of the Mouth. 3. Loofness of the Teeth. 4. Spots like Fleabites, and Freckles dispersed over the whole Field of the Body, but thickest about the Mouth, Temples, Arms, N 4 Breaft

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Breast, and Knees; some are Red. others Yellow, Grayish, Duskish, Purpre, or Blackish, easily disappearing in one place, and emerging again in another. 5. A deeper transmutation of the Complexion into an ill habit of Body, the looks feeming Yellowish, Greenish, deep Red, Sallow or Swartish. 6. The Oppression of the Lungs, Breast and Sides is confiderably increased, infomuch that when they stir or rise up, they are subject to faint and gasp for Breath, which' continueth fo long, until they fit, or lay themselves down again. 7. Puffing up of the Stomach particularly after Victuals, and Tension of the Belly. 8. The weakness of their Knees and Ancles, is likewise much augmented, which renders them far more Impotent in going, or moving. 9. It's observed, that in many the whole train of Symptoms is apt to be intended or increased every fourth day, in some every third day, that is every other day (for Physicians do reckon inclusive) in others at certain seasons every day. 10. In this degree they are usually Costive. And 11. troubled with

with Pain and Stiches all over. 12. Suppression of the Menstrua in Women, in stead whereof, they are molested with a fort of painful Whites.

6. 4. In an Inveterate Scorvey, these Pracited Symptoms and Signs, as they have taken deeper Root, fo have also assumed a greater Intension and stubbornnes; for in this degree the Patient is deprived of all power of Moving or Stirring; the Sinews, Tendons, and Muscles, are apt to be stiff and contracted. He is molested with Vagrant, Ambulative, Diftending, Creeping, Vellicating, or Lancinating Pains of feveral parts of the Body; bruifing Offifragous (o'crorbace) pains in the midway of a Limb between the Jovnts, torturing most in the Night; Red, Yellow, Purpre, or Blackish splotches, especially about the Knees, which fometimes being concomitated with a Tumor, and extending thence downwards as far as the Foot, and meeting altogether in one tumefied Splotch render the Leg to ones view, as it were all over Leprous; a fræquent recurring Melan-

lancholy passion, Hiccoch, choaking Coughs, and copious Salivations, violent Palpitations of the Heart, deep Swoundings strenuous Vomitings, tearing Iliack pains, which a famous Author names a Dysenteria Incruenta, but how properly, let others judge. The Pulse variable, inæqual in motion and strength, most times low and thick, and fometimes vermicular, though at other times strong and violent, that is Thumping. The Urin is inconstant, oft turbid and whitish, sometimes thick and reddish, feldom thin and pale; deep Red, or purpre Tumor and Pustles, scattering over the Surface, Redness of Face, Tumors and Impostumes of all kinds, according to the Temperament of the Grieved. The forefaid Splotches oft do peel off in Scales of several colours and figures, or exchange into Eryspelas's, these and likewise Botches do país into Ulcers, some of which are superficial, profound, simple, inflamed, callous, dry, fanious, purulent, co.c. In some few the Veins under the Tongue, and about the infide of the lower Lips are varicious; some alfo

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also they are debilitated by great Sweats, which they are exposed to. In an Inveterate Scorvey, they are oft Loose and subject to fall into violent Fluxes of the Belly, or Diarrhaa's, and Lienteries, which if continuing, pals into a Terminatory Distemper. The tormenting pain in the Back, called Lumbago, and resembling the pain that's occasioned by the Stone of the Kidneys, is very brisk in this degree; as also spurious Pleuritick pains.

s. 5. The Signatures and Symptoms of a Terminative Scorvey (which is the extream degree, whereinto the forgoing passeth either per ustalezan, or ETIZIVE OIV, are, I. A Scorbutic Phagedanic, cancerous or gangranous UIcers, and Caries or Rottenness of the Bones. 2. A Scorbutic Fiftul, which may happen to feveral parts. 3. A Scorbutic Dropfie, which commonly proves an Ascites, though I have also remarqued the Scorvey hath made its Exit, through an Anafarca, and Tympanie. 4. A Scorbutic Atrophy and Marasmus. 5. A continual very fluent

ent and drivelling Salivation, which one in Throgmorton-street hath laboured under feveral years, and will certainly conduct him to his Grave. 6. Scorbutic Convulsions, and Epilepsies. 7. Fræquent Syncopees. 8. Scorbutic Palfie, and Tremors. 9. Scorbutick Apoplexie. 10. Scorbutic Quartan, Tertian, Erratic, Hectick, and continual Malignant Fevers. 11. Scorbutic Orthopnea, and Periodical Coughs, and Asthma's. 11. Scorbuticks Phthisis, or Pulmonique Ulcerous Consumption. 13. A continual Flux of the Belly, as a Dysentery, or Lientery.

§. 6. The Signs of an Hepatic Scorvey, are, 1. Deep, Red, or Yellowish prurient sanguinolent Gums. 2. Red, Yellowish, or Cineritious Spots and Splotches about several parts of the Body, especially about the Breast, Neck, and Face, also Pustles and Bumps of the like tincture in the same places, that prove somewhat Incommodious by a Pruriginous itching quality, also Erysipela's, Shingles, and Ring-worms; some of those Spots and Splotches of an Ash and Citrin colour I have observed to be indued with a faculty fo corroding, that their feat hath been deep in the Skin, much below the Surface. 3. The Complexion of the whole habit of Body, tending to a Cineritious or Subcitrine defœdation, and in some to a Verdure. 4. A Stich or pricking, and in many a weighty depressing pain in the right side, under the short Ribs, particularly upon a deep caprifant Respiration. 5. A foreness, pain and oppression in the right Hypochondre, when lying on the lest side. 6. Difficulty of Respiration, the Urin and Pulse uncertain, nicorulent Belchings, besides several other figns common to a Liminary, and Recent scorvey.

6. 7. A Stomachic Scorvey is difcerned, 1. By a pale Tallow habit of Body, white Spots like Cacatrix's, much lighter than the Skin, pale Pustles and Oedematous Tubercles, chiefly about the Stomach, Breaft, Neck and Groin. 2. Oedematous Legs. 3. Laxe fungous pale ichorous Gums. 4. Fluent spitting. 5. Inflation

tion of the Stomach, heavy Digestion, sour Belchings, and discharging of Wind both ways. 6. Distension of the Belly; whereunto add some of the common signs.

. S. The marks of a Splenetic Scorvey are, I. Livid luxuriant Gums, that are apt to be Fiffured, Ulcered, grow putrid and flink, and at length through aPhagedænic Sanies are apt to be corroded away. 2. Blew livid Spots and Splotches, which by Deterioration turn black, and oft-times Ulcerate, and commonly haunt the left fide of the Body more than the right. 3. Sour Belchings, Winds Murmuring and Fluctuating about the Guts between the Hypochonders, Stitches, Pricking, or Gravitating pains in the lest side under the spurious Ribs, Melancholy paffions, Palpitations, fudden Faintnesses, Vertigo's, Inflations and pains of the Stomach, which sometimes reach as far as the Back, in manner, imitating those of the stone in the Kidneys, also Vomitings, which in some is so continuous and permanent, that they scarce ever Eat or Drink

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Drink without returning some part of it immediately, or after a short interval; and notwithstanding are obliged to Eat and Drink often, to suppress the gnawing pain of their stomach. which is occasioned by a putrid Acid Serum, vellicating the Tunics of the stomach, lying on the left fide proves easiest to them, a livid blearing up of the under Eye-lids; a Hæmorrhage of the left Nostril, and many other Characters expressed in the general semeiotic.

6. 9. An Acid Scorvey not differing from a Stomachic, a Liminary, and Recent Scorvey ; a Lixivial Scorvey being oft comprehended under an Hepatic, and a Saponary under an Irveterate and Terminatory Scorvey (which Identifications are only to be underflood ra'ra word') are easily known by those Notes I have already pramised, whereunto may be added for confirmation, the most certain fign defumed a Juvantibus and Nocentibus, viz. an Acid Scorvey yields to Alcalious Remedies, a Lixivial to a Scorbutic Acid, a Saponary to a mixt Remedy

medy. The Mouth, Leg, and Jointscorvey, needs no further Illustration for discovery, than what I have set down in their particular Chapters.

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6. 10. A Latent Scorvey requires Experience and Industry in the Physician, who must take his Dimensions of Conjecture, 1. From the Air wherein the Patient Liveth. 2. Diæt. 3. From such Symptoms, which cannot fo Directly or Relatively be applied to any particular Disease besides this, as a Recurrent Lassitude, and floath of Moving, dulness of the Senses, difficulty of Breath, pefanture of Body, inflation of the Stomach, heaviness and dulness after Meat, winds about the Guts, Coughs and Catarihs fræquently returning, besides several other Neutral symptoms, which do neither determine a man absolutely Well or Ill. Lastly, Observe that where two fuch Non-naturals, as a Salin Air and Diet, have so absolute an Influence on Bodies, scarce any Disease can seize on a man, which doth not partake of a Scorbutic Tindure, neither can it be well Cured, without ab-

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6. 11. A Dutch Scorves in Symptoms is very different from the English; they using generally Diæt more Excrementitious than ours (as groß thick Beer, Roots, Cabbage, Salats, Milk, Roak-Flesh, Pickle-Herring, and other Fish) are more Exposed to all the supposed Pathognomenics and Syndrome of a Mouth and Leg-Scorvey, than we, who feed commonly on Meats of more Nutriture and less Excrementitious, and therefore are not so much Exposed to that general Catalogue of Scorbatic Symptoms, but most commonly to those that are Latent, (and Recited in the præceding Paragraphs) and some others more evident, as Spots, Blotches, Pustles, Cutambulous Pains, Griping of the Guts, Vomiting and Gnawing Pains of the Stomach, Hypochondriac Winds and Vapours, Catarrhs, Coughs, also to those of the foint-Scorvey.

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CHAP. XVII.

Of the Causes of a Terminatory-Scorvey.

1. The Cause of a scorbutic Dropse. 2. That the Heart is the part primarily affected in a Convulsion, Palsie, and Apoplexy.

His Chapter I have telerved for the Ætiology of a Terminatory Scorvey, in whose train the Dropsie being placed in the Front, shall Commence my Discourse on that The ill success that attends the Volgar Cure of an Ascites, or Water-Dropsie, by hot drying and Lixivial Medicines, as Elycampane, Orris Roots, Cyperus, Calamus Aromaticus, Juniper, Salt of Worm-wood, Centaury, and a Hundred more, is a plain Convictive, that the Cause is most erroneously asfumed, to be a Refrigeration of the Liver, and it's Obstruction through Phlegmatic Humors. But on the other'

ther hand, when we shall take into Confideration, that a Scorbutic Drophe is eafily, and certainly Cured, if attempted in time by mixt Remedies, (whereof spirit of Tartar, of Salt Marine, single or composite, and such like Acids, are the Basis) besides the symptoms attendant fignifying a Lixivial Original, is to me a clear Demonstration, that it proceeds from a Calcination of Choler in the Liver, which thence resulting into an Alcalious Salt, dissolves per Deliquium, and so becomes Qualified to Penetrate into the most intime pores of its Parenchyma, where it subverts its Temperament, and through its Absorbitive Exhausting faculty parches its substance, and Indues it with a salin diffolving Quality, whereby the whole Mass of chymus is daily dissolved into a Serum. The Universal Current of Blood deriving hence an Absorbing and Exiccating faculty doth about the stomachic Vessels so exsuge the Mouth of the Stomach, that Hydropics are continually obliged to moisten it, by Ingurgitating large measures of Drink, whence the Latex feri doth fo immenfura-

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furably accresce, that through its intumescence generally some Vessel or. other about the Abdomen, and particularly about the Mcfentery, doth burst, or at sometimes through the Acrimonious quality of the Salin Serum the faid Vessel is corroded through, among Physicians termed, a suppose; for it's not possible, so great a quantity of Water, as is sometimes collected in the capacity of he Abdomen, should sweat through the pores (per fians's on.) But this is certain, that oft in a Commencing Dropsie, or one that's Recent, and of no large Circumscription, the serum may exstil through the Osculations of the Vessels (per avarounant) and it is this kind of Dropsie is capable of an expedite Cure, whereas the other that depends on a designos, is for the greater part Incurable; for suppose, that the Extravasate Serum is all, or in a great measure drawn off by Hydragogous Purgatives, still the consolidation of the corroded Vessels is not only difficult of its own nature, but in a manner impossible, because of the daily præferfluxe and appulse of the corrofive

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five Salin Serum, to the discontinuated Orifices of the faid Veffels; add hereunto the ineptitude of the falin constitution of the Liver and corroding Alcalions Blood to be sweetned, and reduced to their pristin Tempera-By the way, let me observe the Error of Hofman in his Institutes, attributing the causality of a Dropsie, to a Diminuted or Abolisht faculty of the Kidneys, not attracting the Serum, which is manifest, doth happen per accidens; because the serum having taken another Channel, is deviated from its usual appulse to the Emulgents. But since I find my self for the prætent Imbarqued on this Subject, the Affinity of the Matter perswades me to Expatiate into some other forts of Dropfies, that are not Scorbutique, namely fuch, as fometimes do happen to Women after their lying In, also to some upon a liberal draught of c. ld Water, and to others upon the continuance of a skir of the Spleen or Liver, or upon a tadious haraffing of a Tertian or Quartan. In the first case there being a valt Coacervation of Humours in the Hypogastric Veliels, by

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by reason of the retention of the Menstrua, during the whole time of Childbearing, which upon the pains of Labour attracting a greater Conflux thither, and the great heat of the adjacent parts rarefying the faid Humours, occasion some of the Lymphatic Vesfels to burst, whereunto being concomftant a copious Hæmorrhage of the Matrix, causeth a vast expense of Spirits, whereby the Bowels do all fuffer a subversion of their temperature, that afterwards proves an occafion of engendring crude aqueous Humours; these upon their circulating reversions distilling out of the foresaid bursted Vessel into the capacity of the Abdomen, produce a Dropsie. The like may happen upon a draught of cold Water, violently repelling the Humours to the Vessels of the Abdo. men, which partly through the violence of the Impule, and partly through their being crouded together, occasion a Rupture of some of the Lymphæducts. Here I must Animadvert further, how ridiculous a conceit it is of most Physicians, importing the faid Dropfie to be caused by

by the sudden extinction of the innate or influent heat of the Liver, which afterwards doth engender Aqueous Blood; as if that entrail should be left so naked, or be so meanly fortified by Nature, as not to be capable, to refift the quality of cold Water at fo great a distance; for certainly the cold is much broke and obtused by the Stomach, and other parts, before it can arrive to the Liver; or as if that cold quality, which is impressed upon the Liver, could not be easily remedied by hot Medicine: But what do I infift fo long upon these Trifles, fince the whole Body of Phyfick is filled with them? How a Dropfie is engendred upon a Skir, Tertian, or Quartun, you may be inform'd from the Præmises, wherefore I will return to Confirm the cause of a Scorbutic Drophe to be an Alcalifed Blood, by the Calcination or Reverberation of the Bilis, which the Liver is alwayes furnisht with throughout all its parts, to subtiliate and depurate the refluent Blood, which being performed, the superfluous part of the said Bilis is abandoned to the Cystis. The 0 4 SympSymptoms concomitant and supervenient do strongly Corroborate that Sentiment.

1. The Insatiable-Drought, the Atrophy of the Superior parts, the Lixivial ruddy Urin, torrid Tawny Complexion of Body, cancerous depascent Ulcers of the Legs, the salt Lixivial taste of the serum, when Tapt out Per paracentesin; who but an insipid Medicaster can derive them from any other than an Alcali, or a reveberated Bilis?

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5. 2. A Convulsion, Palsie, and Apoplexy, are the next particulars, that highly merit a serious deliberation. the more, because they ordinarily prove so dangerous and terminative. In the concept of their part primarily affected, seat, and internal Cause, I have for several years with the Generality of my Prof. sion, attributing too much to the Dictates of Antiquity, floathfully erred, until that by a stricter fecutiny and observation in practice I had detected their true Fountain and Original, which I now propose to you. That the Heart is the chief feat, and part primarily and princieat

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principally affected of the forementioned Diseases, appears 1. By the Pulsation of the Arteries, which before any Convulsion, Pallie, or Apoplexy doth seize on the Patient, doth very much vary from its Natural, in respect of Fortitude, Order, Frequency, Æquality of Motion, and many other specifications; which certainly express the heart primarily and principally affected; confer further with the 6. Arg. 2. By the Respiration, whose variation from its ordinary Function in several respects, praceding those recited affections, also signifie the same to be the part principally affe-3. From the consideration of the Office and Function of the Heart. which, besides the Vivisication and Irradiation of the whole, is, to be the sole and Primum Mobile of Motion of the Animal Spirits; for through the Pulsation of the Arteries about the Brain, and more especially about the Plexus Choroides, it causes Efforts, Impetus, and impulsive motions on the Animal Spirits; fo that it is from those Impulses these receive their energy and vigor, and therefore consequent-

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ly the Heart being affected, those Impulses must also be depravated or diminisht. 4. If at any time those Symptoms are abated or removed, it is by means of Cordials, which here for distinction, and the scope they are intended for (though improperly) may be termed Cephalic-Cordials, Cephalico-Cardiaca, as Spirit of Castor, Amber, Rosemary, Pyony, &c. undoubtedly are nothing more than Cordials, and rectifying the Blood, comforting the Vital Balfam and Spirits of the Heart, and reducing them to Ordination, aquality of Motion and Vigour. From ordinary Cordials they differ in this only, that confifting of a more durable and compact sulphur and Spirits, they continue their Operation longer, in comforting the Heart, and oppugning the salts of the Blood, by reason of the Compactness and Crassitude of their substance, whereas those that are vulgarly termed Cordials, and intended only to comfort the Spirits by affimilation, confilt of a lighter, fufive, and exhalable substance; as spirit of Wine, Treacle-water, Aqua Mini-

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Mirabilis, &c. 5. Observing, that in some Cases the foresaid Symptoms receive a confiderable abatement and benefit from Phlebotomy, it is eafily Demonstrable, that this is performed, by detracting some part of the burden, that oppressed the Heart, and its Pulsifique and Impulsive motions. 6. Galen, lib. 2. de cauf. pulf. c. 12. feems to intimate what is here afferted, in these words: Pulsus convulsious est, in quo ad utrumque terminum arteria tenditur, quem convulfio Sequi Solet. So that a convultive Pulse (which fignifieth the Heart to be affected primarily) doth præcede a Convulsion, which following must be deemed a Symptom of the former. Touching the manner and difference of those three Symptoms, I conceive; that a Convulsion is occasioned by Irritation, a Palse by Relaxation and Obtufion, and an Apoplexy by Dissolution. But to Illustrate it further; When the Arterial Blood confifting of an acrimonious pungitive Salt, and appelling to the lower part of the Brain (which is the most sensible, and near the Principium Nervorum) is agitated fmartly by

by the vibration of the Arteries or hard and violent pulsations (for in all Convultion: Pulsus sunt duri & tensi) those subtiler particles of the Blood are adacted violently into the Pores of the tender parts of the Brain, which being thereby extremely discompofed, do yiolently impel the faid pungitive Particles into the Nerves (or in some cases only make a smart Impression of their Idea on the Animal Spirits contained in the Nerves) and being protruded to the Tendons of the Muscles, through their stimulating quality incite them to contract and diftend themselves, to be freed or discharged of those aculeous Moreover, take notice, that the vulgar Explicatory of Convulsions, wherein the Nerves are declared to be primarily and chiefly convelled, which being continuated to the Muscles, do likewise occasion their being convelled, is greatly Erroneous; for only the Tendons are fubject to Convultions, they being the chief instrument of the Motus Spontaneous, and only subject to a Motus Depravatus, and Violentus, whereas the

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the Nerves are not appointed to move or to be moved, but to convey the Spirits. Secondly, When a Nerve is punctured, or cut afunder (as hath oft happened by the Indexterity of Surgeons in Phlebotomy wounding the Nerve in the Arm in stead of the Vein) it's only apt to be surprized with a very great pain, but never known to be convelled. Wherefore I would not have my Reader judge the Dictates of the Ancients to be Infallible, fince befides what is fore-mentioned, it's manifest in many of their Politions, which hitherto by this credulous Age are received for Truths: I shall only give you this Instance for Proof; The Causes of a Cephalalgia, or Head-Ache, is by them afferted to be Acrimonious, or distending Humors and Winds, corroding or diftending the Membranes or Meninges of the Nothing is more false than this, or favours more of Ignorance in Anatomy; for neither of the Meninges are in the least sensible, as may be observed by the Probe, wherewith touching the Dura meninx, though roughly, (when lying bare upon the ufe of the Trepan) is not in the least perceived

ceived by the Patient. Secondly, Whence should the sense be derived, there being not any Nerve, or fo much as a Nervous Fibre transmitted to it from the Brain. In Summa, in the Brain, Stomach, and Liver, though they are daily Diffected and Examined by Phylicians in their expired Patients, many particulars are passed by, that have not been discovered until very lately, which is to be attributed to their Negligence and Unskilfulness; for indeed now adayes, if a Physician hath but once or twice diffected a Sheeps-head, or a Calves-pluck, he thinks himself sufficiently qualified to Challenge the Title of an expert Anatomist; thus we fee, that an expert Anatomist of this kind, observing that one of the jaw Muscles of a Sheeps-head had two Bellies (whence its also called Digastricts) immediately concluded all Muscles to be Biventres; an able Headpiece for an Anatomist.

A Palsie is an imperfect Apoplexy, or a Levis Apoplexia, and differ only gradu, secundum magis & minus, and therefore do easily pass into one ano-

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A New Discovery of the Scorvey. 207

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Galen 3. de loc. affect. to. further tells you, That where all the Nerves have at once lost their sense and motion, that affection is called an Apoplexy, but that which only happens to the right or left side is a Palsie.

The causes in general are twofold, 1. A Material. And, 2. A Formal Cause. The former is a gross Saponary Blood, which through its thickness is rendred incapable of being so subtilized by the Brain, as to distil into the Nerves, and that part that is Infinuated into the Nerves, being too obtuse and gross, to receive the Impulfive motions and Impetus, prove unable to actuate or diftend the Nerves and Fibres, and therefore move the Members very weakly, or not at all, whence I term it a Relaxation in opposition to the said distention. The Formal Cause is the pulsifique faculty of the Heart, which is rendred foft, flow, and dull, and therefore Incapable to exercise it's Impulsive motions. Moreover observe, that though the Blood Blood is Salin-Alcalious, it is not Acrimonious, because it is obtused by a mixture of gross Unctuous and Bituminous sulphur; that obtuses its Acrimony; for otherwise were it Acrimonious, and purely Lixivial, it would prove Vellicating and Dolorous, and consequently Convulsive. The Ætiology of the other Terminatives may be easily deduced from the interspersed Discourses.

CHAP. XVIII.

Chronology of the Scorvey.

1. In what place, and with what Concomitants the Scorvey first appeared, in what particulars its Symptoms increased. 2. A recital of several Primitive Authors that have wrote on the Scorvey.

Ments touching the first Rise and appearance of this Distemper, every particular Physicians Fan-

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cy may lead him, I am certain by all the Indagation I could make among Physical Records, the name of scorver (what touching Identified Symptoms hath been discoursed among the Ancients, let that rest) is not mentioned in any Author prior to Euritius Cordus, by his Botanology, and Olaus Magnus, who in his Hift. Gent. Sept. relates, There was a certain Campane Disease, which did afflict those, that were Besieged and Closed in, and feemed to grow from eating of Salt Victuals, was increased through a cold Exhalation out of the Walls, and was called the Scorboch. But Georg. Fabrit. Lib. 2. Annot. in his History of the year 1486. faith, This year was reigning a new and unheard of Disease in these Countries (which were silesia, Bohemia, and the parts adjacent) which the Seamen of Saxony, called Den Scarbochk. Whence I collect, this Disease had some few years before been Extant in Saxony, and Denmark, possibly in 1483, or 84. Moreover two things are observable, 1. That this Scorbutic Evil præsently after its first Origination, was more fierce

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fierce, and Malignant, than the enfuing Twenty or Thirty years; for the faid Fabritius in the account he gives of it, tells us, this Distemper tended immediately to Ulcers; which if not timely remedied, became Gangrænous, and Mortal. The Second is, That there was an Interval of some years, before it spreaded into Countries, that were less Northern; for Balduinus Ronsaus, who to me appears the first, that wrote on the Scorvey, è Professo, in his Treatise de Magnis Hippocratin lienibus, pliniique Stomacace, or Sceletyrbe, sen vulgo dicto scorbuto, printted at Antwerp, in the year 1564. doth express this Disease, was but newly arrived among them, and was fo strange to them, that many scarce knew, what to make of it. Lemnius, a Zelander, wrote a Treatise on the same Subject a little while after. Forestus in his Observ. Lib. 22. Obf. 20. Writes, that the Scorvey, was not only formerly unknown, but many that were troubled with it, Died of it; likewise that one Dorpius, a Priest of Lovain, died of the faid Difease many years since, the Lovain Phyifu-

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Physicians being extremely surprized at it, who had not yet determined any thing concerning it, being an Evil, that was yet new and unknown, and so was its Name, Essence, and much more the manner of Curing it.

Scorbutic Authors tell us, that Westphalia was pester'd with it next after Denmark and Saxony, in the year 1500. the next Frizeland, then Flanders, and Brabant, in 1556. where it was occasioned by eating of Rye, that was brought from Prussia, there being at that time a great scarcity of Wheat 3 afterwards Holland, and Zeland; in a manner, as if this Distemper had by Contagion crept from Country to Country. Many years it remained on that Coast, before we were sensible of it here in England; for there are many Physicians yet living, who in the former part of their Practice, had not so much as heard of the Name of this Disease, whereas within the last 20 or 30 years past, it's grown very familiar among us.

The next Author that wrote on the scorvey after Ronfaus, was Echtius, whose Epitome of the scorvey was

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printed

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Printed a little after the faid Ronfens, next to him was Wierus, de Scorb. printed in 1567. next Salomon Albertus, whose History of the Scorvey, with the addition of a new Symptom then appearing, which was a contraction of the Cheeks, was published in 1594. Hieron. Reusnerus, his Exercit. on the scorvey, in 1600. Severinus Eugalenus his Book of the Scorvey, in 1604. Langius his two Epiftles on the scorvey, in 1607, or 8. Horstins on the same Disease, in 1609. stubendorf upon Engalen, in 1614. Dreyer, Brunner, Brucaus, Albinus, Smid, Sennert, all Authors on the Scorvey, in 1622, 24, and 27. Befides these several others have Obiter and Curforily touched on this Difcase, as Baubinus, Dodonaus, Agricola, Carrichter, Dryander, Mithobins, Forestus, Rolfink, Barbet, and Twenty more.

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CHAP. XIX.

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Of the Præsages of the several Degrees and Kinds of Scorvey.

1. The Prognostic of a Præliminary Scorvey. 2. Of a Recent Scorvey: 3. Of an Hæreditary Scorvey. 4. of a Contagious Scorvey. 5. Of an Endemic Scorvey. 6. Of a Stomachic, Hepatic, and Splenetic Scorvey. 7. Of an Acid, Lixivial, and Saponary Scorvey. 8. of an Asthmatic, Rheumatic, Torminous, Emetic, and Diarrhæous Scorvey. 9. Of a Latent Scorvey. 10.0f an English Scorvey. 11. Of a Mild Scorvey. 12. Of Spots and Blotches. 13. of Ulcers. 14. of Spots and Blotches of an Ash-colour. 15. Of a Livid Palat. 16. Of a Scorbutic Pulse. 17. Of an Epiginomenal Scorvey. 18. A Prognoftick applicable to Children. 19.0f a Reverting Scorvey. 20. of Terminative Scorveys. S. T. The

Mutations, Facility, or Difficulty of Cure of a Distemper, is so necessary, that a Physician can by no means be thought accomplish, that is not well instructed in that particular, for which reason I shall Congest what Observations others and my self have made upon it, and recommend them to your reading.

A Præliminary Scorvey, if not well Distinguisht, and rightly Cured, may either be Transitory into a dangerous Malignant continual Fever, or a Liminary Scorvey, either of which may be prævented by a very facil Cure.

§. 2. A Recent scorvey being neglected for fix or eight Months, either by not making use of any means at all, or at least such as are in effectual, passeth into an Inveterate scorvey, that generally proves very stubborn to Remedies; being in some Cured by a long continued Course, in others only palliable, so that its frequently returnable, either every Spring and Fall, or

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5. 3. An Hæreditary, Connate, or Syntrophous Scorvey, is Mitigable, but not intirely Curable.

- 6. 4. A Contagions Scorvey being only Liminary, or Recent, yields eafier to Remedies, than one that is Nonnaturally adventitions.
- §. 5. A Distemper contracted by a Salin Air is not so obstinate, as one engendred by Dyæt, provided the Patient takes the advantage of changing the Air.
- §. 6. A Splenetique Scorvey is worse than an Hepatic, and that also is worse than a Stomachic.
- 6. 7. An Acid Scorvey is more corrigible than a Lixivial, and that more than a Saponary, which fræquently proves Incurable. The measures of a Mouth, Leg, and Joynt Scorvey in general, are very consonant to the last præceding distinction.

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5.8. An

scorvey, is attended with danger, and oft with a sudden death; a Rheumatic is tædious, and oft survened by a Fevor; a Torminous is ordinarily very deplorable, and an Emetic distemper is of æqual danger with the former, and oft proves satal. Diarrheous and Lienteric Scorveys are very Chronical, and sirequently Mortal. A Flamous Hypochondriac, an Ulcerous, and a Dolorous Scorvey are very difficultly conquered, or if at any time Cured, are easily returnable.

difficultly Cured, according to the length of time fince it hath invaded the Body, and according to the quality of the Symptoms, and parts affected. In general, a Latent Distemper doth more easily admit of Cure in the beginning, than a manifest one; but in the Augment or State is far more difficult than the other, because there is no discharge of Scorbutic matter towards the Circumference, as in the other, and consequently the Spirits must be more oppressed.

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6. 8. An English Scorvey is univerfally milder, and less refractory than a Dutch Scorvey.

- s. II. A Mild Scorvey may continue or be protracted to ten, twenty, or thirty years; a Malignant one doth sometimes terminate Life in two, fix, or twelve Months, in some sooner, in others later; some arrive to their periods gradually, that is by a gradual decay of Spirits, and contabescency of Body; others die suddenly, and possibly when they least think of it.
- S. 12. Spots and Blotches, the nearer they come to a black colour, the worse they are, and if they burst out into Ulcers, signifie a greater Malignity, and difficulty of Cure. It is observable, that in some before they Die, those Blotches do disappear by reverting into the Body, but foon after death appear again.
- 6. 13. Vicers of the Legs are not eafily chekt, but on the contrary if irritated, like Cancers indue a fiercer Nature, which fræquently inclines

to a Gangræne, and Mortification.

- §. 14. Spots and Blotches of an Ash colour, especially if Corroding and Itching, in some are never Cured. Cutaneous Tumours if apt to retrocede and burst out again, præsage a Palsie. A Palsie though Cured, leaveth a contraction of some of the Tendons, or a subjection to Convulsions behind it.
- Palat and Throat turn Livid, that is Leadish, or Blackish, prognosticates Death to be at the door.
- of Body in this Distemper are not alwayes dangerous, because that former may be occasioned by vapours and steems, and the latter by putrid Acid Blood. Neither are Convulsive Motions, that survene Scorbutique Fevors, of an aqual danger with those, that accompany other Distempers; for these soon cease, and their cause being Acrimonious steems, are in a short time dissipated.

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f. 17. A Scorvey succeding a Quartan Ague, or a continual Malignant Fevor, proves for the greater part very Malignant, Obstinate, and in some Incurable.

6. 18. Children and Boys are most incident to the Kings-Evil, and Joint-Evil, young Men to the vagrant Gout, and old Men to the fixt nodous Gout. Boys and Girls are not so much expofed to the Scorvey as Men or Women ; because the Constitution of the former is not so Salin, as the latter, and therefore when at any time they are furprized with it, are easier Curable. Old Men if Scorbutique, carry their Distemper commonly along with them to their Grave. A Month-Scorvey is more familiar among the younger fort, and a Leg-Scorvey among those that are past thirty.

6. 19. A Body that hath been once Cured of the *scorvey*, if attacked the fecond, or third time, shall find the Cure to advance much more flowly than before.

Few Distempers of this kind are remedied without an exact Diæt, though though never so slight, and if they be any thing *Inveterate*, or *Terminatory*, the best Medicines without a Diæt avail nothing.

6. 20. Terminative Secreteys, though Curable, require a long continuated ftrict course of Medicines; some are

absolutely Incurable.

These Prognostics are to be understood absolutely considered, without the help of Remedies, which being præscribed according to the Rules of Art, dexterously præpared, and Methodically applied, are sufficiently impowred to frustrate the most of prædictions, alwayes that excepted, which implieth a Period determined by the Creator, whereunto this Trite Versicle hath its Reference:

Contra vim mortis, non est Medicamen in hortis.

CHAP.

CHAP. XX.

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Of Præservatives against the Scorvey.

I. Pracepts relating to the Air. 2.

Rules of Diet. 3. Pracepts referring to the rest of the Non-naturals.

on of the Nature, Causes, and Signs of Diseases, the Art of Medicines doth Acquies, but like other practical Sciences and Arts, designs its Theorems for Practice; wherefore since I have sufficiently laid down whatever appertaineth to the Theory of Scorbutique Instrmities, it's requisite I should now declare the Practique, which comprehends the Prophylatique and Therapeutique. The former being otherwise called the Confervative, in this case directs the means whereby to præserve a Healthy Body from the Scorvey, which consist chief-

ly in Rules, and præcepts of making use of the six Non-naturals.

- perflated In Land Air, and therefore shun the Sea-coasts, Bogs, Waterish, Stincking, and Close places.
- s. 2. Let your Diæt be chiefly upon fresh Meats, that are Nutritive, of eafie digesture, and not very Excrementitious; fo that you must avoid all Victuals that are stale, stincking, falt, gross, obstructive, Excrementitious, and of hard digestion. Within the Verge of this Rule are meats, that have been kept too long, until they had acquired a French Hangon; likewife Pork, Brawn, and all forts of Hog-meat, as Black-puddens, Saufiges, Beef, Ducks, Geefe, Tripe, Flower-Puddens; most forts of fried Victuals, as Pancakes, Stakes, Eggs fried, Collops of Bacon, &c. Most forts of Fish, Salats, all Souced, and Pickled Meats, &c. Which are all Scorbutique. Let your Drink be clear, well fermented, fresh, sweet, and temperate; not stale, or sour, ill tafted,

tasted, thick and muddy, heating, or cooling. Thus much for the quality; for quantity you must be moderate, in respect both of Eating and Drinking. Let your times of Meals be seafonable, seven in the morning, twelve at Noon, and seven at Night in the Summer, and in the Winter one Hour later. Your Breakfast and Supper ought to be light, and moderate, but your Dinner somewhat more solid and plentiful. Particularly avoid Cosfee, new raw Cider, Brandy, and Tobacco.

6. 3. Sleep moderately, use Exercise, but not violently, keep your Body in order; that is between Loose and Bound; shift your Linnen once or twice a Week, to prævent the stoppage of your Pores by the Condensation of Sweat, and sooty steems, that stick to your Shirt. What concerns the passions of the Mind, I will only recommend to you the Old præcept. Bene age & latare, Do well and be chearful; and so here let us end this Chapter.

CHAP.

CHAP. XXI.

Of the Therapeutique in the Scorvey.

1. General Indications. 2. Indications taken from the Air, also from the quality of the Humours. 3. Indications abstracted from the quanty of the Humours.

The Therapentique or Curative performs its part, by directing Methodically Remedies, contained in the Pharmacentique and Chirurgique.

of 1. The Methodical Directions do flow from the Indications, which are taken from two general Heads, viz. 1. From the Strength of the Body. And, 2. From the affections against Nature; from both which likewise Coindications and Counter-indications are desumed. Among the Assertions against Nature, the Causes of a Dilease, and in our Case of the Score

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scorvey are the principal Indicants, next are the urgent Symptoms, and lastly the Disease it self.

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6. 2. The Salin Air among the Procatardies being the Ground and Original efficient, indicates its change into a better, which is fuch, as hath been described in the first Rule of the praceding Chapter; whose second Canon doth likewise contain Directions, that answers the Indication, desumed from a Scorbutique Diat, another grand Efficient; these two together with the rest of the Non-naturals being provided against in the same Chapter, we are to apply our selves to those Indications, which the Internal antecedent Causes do point at, viz. I. A Salin putrid, or gross fuliginous coagulated acid B'ood, indicates Kemedies, virtuated to dulcify, attenuate, depurate the Humours of those footy particles, and volatilize the falin parts, that are too much fixed. 2. A Salin lixivial thick chyme r quires Remedies, that by obtuling the fiery ale ilious Salts, may reduce it to an untinous sweetness, or a Pingue-dulce, and through

though their inciding property render it thin and fluid. 3. A Saponary constitution of the Blood doth assign Remedies, that obtain a power not only of allaying the alcalious qualities of the Salts, but also of depurating and volatilizing the incrassated Sulphurous Particles, that are fixt and imbodied with the Alcalious Salts.

s. 3. In respect of their too much increased quantity, they seem to direct the Physician to Diminution 'or Substraction, which is accomplishe by Pharmaceutical and Chirurgical means. The latter are, I. Phlebotomy, for difbutdening and depleting some part of the whole, which in Hepatic and Stomachic Scorveys is to be performed in the right Arm; in a Splenetic in the Lest, and in a Pleuritic scorvey in the Arm of the same side. After a competent Interval, for derivation from, and eafing of the part affected, a particular substraction of Blood out of the Hemorrhoide veins by the application of Leeches is of great use in an Hepatic or Splenetic scorvey. In Women, especially if there be either a Total or partial suppression

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pression of the Menstrua, the saphana ought to be opened. The measure of what quantity of Blood is requisite to be subducted, is to be taken from the degree of Plethory, Age, Sex, and other common Circumstances.

2. Fontanels or Islues, than which no means, whether Chirurgical, or Pharmaceutical, seem more advantageous and necessary, both for a præ-Touching fervative, and Curative. the Place, where an Issue is most proper to be made; in a Splenetic Scorvey is in the infide of the Leg above the Knee, an Inch or two higher than the Gatering place; but here the Surgeon is to be very cautious, that in making the Incision, he doth not wound some of the Vessels, that pass just underneath, which is fraquently done if made too deep, and sometimes not without danger. In an Hepatic Scorvey the Right Leg is most proper, in a Stomachic either, it matters not. The Mouth-Scorvey indicates an Isfue in the Left Arm, or in some cases in the Neck, or Right Arm, or in some very few on the Head, on the place of meeting of the Sagittal and Coro-

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nary Suturs. In the Leg-Scorvey an Issue above the Knee is more rational. In the Joint-Scorvey more Fontanels than one are necessary, to be made in the Arm or Leg, and sometimes in the Neck also, according to the circumstances of the Disease.

Children that are Born of Scorbutic Parents, receive a great benefit from Issues, that are made in the Neck or Arm; but for prævention, that the stain wherewith Scorbutic fome Child bearing Women are contaminated, shall be communicated to the Child in the Womb, nothing is of agual force to an Issue in the Arm. The too much increased quantity of Scorbutic Humours indicating Pharmaceutical evacuations, is to be diminisht, or abated by Laxatives or Eccoprotics, and Purgatives or Catharties. The former are usually pramised before Bleeding (where required) and Purgatives.

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CHAP. XXII.

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Of Antiscorbutic Laxa-

1. An excellent Praparation of Aloes.
2. A description of the Francfurt Pills. 3. Of Aloes Rosata, and Bontius his Pills of Tartar.
4. Of the Virtue of Aloetic Pills.
5. Two particulars to be observed in the Praparation of Aloes. 6. Some other Laxatives proper also in the Scorvey.

A Loes is the chief Laxative, and indeed the Basis ofmost Purgative Pills; but in regard that it's offensive to the Stomach and Liver, and that by reason of its bitter Acrimonious Lixivial parts, it's of a nature so Colliquative, and Irritating, that it's apt to force the Blood out of its Vessels, and particularly to excite a Tenes must, and Hamorrhoidal pains, necessarily requires such Correction and Praparation, as may render it not only

less hurtful, but also particularly appropriated to the Stomach. The praparation, which I have fræquently Experienced, to excel all others, is this following.

R. Aloes Succotr. grof. pul. 3 i.

Flor. Rof. rub. 3 i. s.

Spir. Sal. com. gut. xl.

Spir. Vin. non rectif. ad.

Supereminent. iiii digit.

f. digest in ciner. per hor. xii.

coletur & evapor. ad extr. conss.

cui adde Ol. Garyophyl. vel. Nuc.

Muscat. stillat. gut. xx.

Dos. a gr. xv. ad lx.

6.2. Tthe Francfurt Pills, otherwike called Pil. Angelica, Invented by Hardman Beyer, have not only kept up their Reputation for many years, but to this day are accounted of great Virtue in Germany and Holland against Scorbute Distempers, insomuch, that many Thousand Boxes of them are every Year dispersed to all Neighbouring, and some remote Countries also, so that they are sound to be as stabilated Commodity to the Francsurter Apothecasis.

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thecaries, as Treacle to the Venetians, or Confectio Alkermes to those of Mon-pelier. The gain that hath been acquired by them, is the occasion their Præparation hath been kept so private, though at præsent is grown publick enough. The description I had of it at Francfurt is various, some præparing them one way, some another, though in the whole it comes much to one. The most received Præparation is that, which consists of an incomplete and complete Extract of Aloes. In manner following,

The incomplete Extract is.

R. Aloes Succetr. to f.
Aq. Borrag. to i fs.
Diger. per hor. xxiiii.
colatura fort. express.
evap. ad confisentiam.

The complete Extract is.

Materiæ inspissat.assund.

Suc. Card. Ben. 3 vi. aliis 3 viii.

Digerant. rursus per kor. vi. & expressio evaporet. ad spissit. Extract.

6. 3. In Italy the præparation of Fabritius ab Aquapendente was, and is still of agual Fame with the former, and is nothing but Alees Rosata, whereof the faid Fabritius for many years together was wont to take every day a little before his Supper half a Scruple, for a praventive of Diseases and a prolongative of Life. Leonard. Donatus writ an entire Tract upon the Description, Virtues, and Use of Aloes Rosata, concluding the last Chapter with this Expression, That as the Romans anciently through Sobriety lived to the Age of Six Hundred Years, so he hoped to Live no less by the use of Aloes Rosata.

Bontins his Pil. Tartar. are also of excellent use for the same purpose, the Description whereof you have in

Scroders Pharmac.

§. 4. It is among the Records of Experience, that Aloctic Pills are a most safe and effectual Præservative from the scorvey, being at convenient times used once or twice a Week or oftner; they are likewise a great Præparative, that may be præmised before

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fore a Curative Method of a Recent, and Inveterate Scorvey. They offer no violence to Nature, which the Vulgar Mountebancks Universal, or Scorbutic Pills, Elixirs, and prætended purgative Cordials do in fo rude a measure, that many have and daily do purchase them with the loss of their Lives. Were I obliged to fet down the Names of all those bold adventurous Elixir-purchasers, or Pill-Chapmen, that in one Year only are untimely posted away to their Graves by those Deleterious Medicines, it is not twice the Bulk of this Treatife would contain a space large enough for a Register.

How gently those Aloetic Pills cleanse the Stomach, the Guts; and Mesaraics of their Drossy Mucilaginous and Tartarous Dregs, and that without the least perturbation of Humours, alteration of Body, change of Countenance, impair of Strength, or any ill attendance, may be admired. That they gently removeObstructions, excite an Appetite, and render the Body vigorous and prompt to Motion,

is a most certain Truth.

5. 5. Two particulars are to be ob. ferved; The one is in relation to their Præparation, viz. That they be præpared fingly, without the admixture of those prætended correctives contained in the Composition of Hiera Picra, Ruffi, Mastichin, and such like; for all that Farrago or Miscellany of Asarum fpic.croc.&c. in the Hiera; Myrrbe, and Saffron in the Ruffi, doth not only fo much increase the Mole of a Dose, that in stead of two Pills of simple Aloetics, you are obliged to swallow down Eight or Nine, but it occasions also a Tumultuation and Ebullition in the Stomach, and all the Vessels, inflames the Body, and fets all the Humours afloat.

The fecond is in relation to their proper Use and Exhibition, where you are to take notice, that they are only appropriated to an Acid Scorver, being otherwise very præjudicial in a Lixivial, and Saponary Scorvey, also to all hot and dry Temperaments, lean and thin habits of Body, and fuch as are subject to Hemorrhages of the Nose or Hamorrhoides, or excessive Menstrua. 6. 6.

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6. 6. The Laxatives proper in a Lixivial or Saponary Scorvey, are Polypody, Sem. Cartham. Epithym. Caffia, Manna, Tamarind. Prun. dam. Pafful. Tartar. Rhen. Crud. Crem. Tartar. syr. Rof. fol. Out of these may be composed Decoctions, or Bolus's; or in stead of them may be substituted Laxative Glysters.

CHAP. XXIII.

Of Scorbutique Purgatives.

1. The great virtues of Senna. 2. Of Agaric, and Mechoacan, also of Halo-cathartics, and Gum-cathartics. Of composite Medicines. 4. A Caution in Purging Scorbutic Bodies. 5. A Purgative Apozem. 6. A Cathartic Powder. 7. Antiscorbutic Pills. 8. A pleafant Purgative Eleauary.

9. 1. CHymical Practifers cannot with greater Truth affirm, that Antimony is capable to Cure all DifDiseases, then in the same sense I may considently affert, that senna before all others is the most noble, safe, and effectual Vegetable Purgative, whereby most Distempers depending upon a Cacochymy, may be perfectly removed, and especially those, that are Scorbutique.

the next Purgatives, that seem to be specifically appropriated to Scorbutic Cacochymies. Besides these, all Hydragogal Cathartics in general are experienced, to contain a peculiar faculty of Evacuating, and purging abounding vitiated Acid Salts, and among those Syr. è Rham. Cath. is præser'd for a mild and safe Halo-Cathartic. Those of a more rude nature, and consequently more proper for Robust Bodies, and inveterate Diseases, are Elater. Gut. Gamb. Gialap. Extr. Esul. suc. iridis nostr. soldanel.

Gum Cathartics in obstinate Cases are of admirable Virtues, but must be used in their due season; such are Gum Ammoniac especially, Opopanar,

and sagapenum.

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6. 3. Thus much for the Simples. the Composits are these following; but before I proceed upon them, let me recommend one Rule of Caution to you, That the less Compounded Medicines are, the more certain are their Effects, and less subject to disturb the Spirits: For a Medicine that consists of manifold Ingredients, though perchance it may perform the same Operation, will occafion a greater Perturbation, and with fo much uncertainty, that you shall not know, to which of the Ingredients, the success is to be chiefly ascribed. Moreover, though for Ornament and the Dubiousness of the Distemper a Polypharmacal præscription may be allowed, yet in Scorbutique Maladies, where the Blood upon the least irritation is so apt to be exagitated, and moved into a tumultuous Ebullition or opyzyme, it's incompatible.

s. 4. Secondly, Be mindful of this Remarque, that Scorbutics, because they are so much exposed to an Oppression, and Depauperation of Vital and

and Animal Spirits, as appears by their low inæqual Pulses, the imbecility of their Joynts, and oppressed Respiration, cannot bear much Purging, especially by violent Cathartics, neither is there that Concoction (\(\pi_{\pi'\pi'\pi'}\)) of Humours, which are necessary before Evacuations; wherefore purge seldom, and that only with gentle Medicines, unless the Robust Constitution of the Body, or the Radication or Greatness of the Distemper should require it.

6. 5. The forms of Purgative Præscriptions, viz. of an Apozem.

R. Rad. Polypod. q. Helen. an. 3 fs. Fol. Agrimon. Asplen. an. Mi.s. Sum. Absynth. P. i. Passul. m. 3. i Fol. Sen. or m. 3 vi. Agar. albis. 3 i ss. Tartar. Rhenan. 3 i. Zing. 3 i ss. Coq. in Aq. Fon. q. s. in Colat. the dissolv. Syr. Ros. sol. 3 i ss. M. f. Apoz. pro iii. dos. matut.

6. 6. Of a Powder.

R. Crystal. Tartar. 9 ii.

Flor. Sal. Armon. chal. 9 is

Scammon. Salphur. gr. vi. vel viii

M. f. Pul.

Capiend. in juscul. cochl. i. vel ii.

s. 7. Of Pills.

R. Fol. sen. or. 3 ii.

Nitr. Tartar. 3 i.

Resin. Scammon. 3 i.

Ol. Garyophyl. gut. x.

Syr. e Rham. Cath. q. s.

M. f. Mass. Pill. Dos. 3 i.

Others of great Virtue.

R. Aloes prap. nost. vel Rosat. 3 is.
Tartar. Vitriolat. 3 i.
Resin. Gialap. gr. iiii. vel. v.
ol. Garyophyl. gut. ii.
Syr. ros. Sol. q. s.
M. f. Pill. vii.
deaurentur.

s. 8. Of an Electuary.

R. Mechoacan. ras. 3 i.
Gialap. pulv. gr. xv.
Ol. Stil. Macis. gut. iiiî.
Man. Calabr.
Pulp. Tamarind. an. 3 ii.
Sy. Rof. fol. q. s.
M. f. Elect.

This last praceding I have oft in a Lixivial Scorvey prascribed with success to those, whose Stomach could not bear an ill tasted Medicine.

CHAP. XXIII.

Of Antiscorbutic Alteratives.

1. Antiscorbutic Alteratives. 2. Spagyric Antiscorbutics. 3. An Antiscorbutic Decoction of great Virtue. 4. An Antiscorbutic Liquor. 5. A Liquor by expression of Juices. 6. A Liquor by Infusion. 7. An Antiscorbutic Spirit. 8. A different process

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to abstract Antiscorbatic Spirits, 9. An Antiscorbatic Syrap. 10. A different process of praparing the Elixir Proprietatis. 11. That Crocus Martis as it is prapared by the Oxonian Author, is very hurtful in the Scorvey. 12. That Steel powder in some cases, is possenous. 13. That Vitriolum Martis is Astringent and not Ecphractic. 14. Tunbridg Waters examined, and their true Principles discovered. How they ought to be used with Benefit. 15. Barnet and Epsom Waters Examined.

for I. IN an Acid Scorvey these following are æstimated Specific Antiscorbutics, viz. Cochlearia Hort. Garden Scorvey-grass, being the chief of all the rest, the next is Nassurtium aquaticum Water-cresses, Bercabunga Brooklime, Sedum minimum Wall-peper, Armoracia Horse-radish, Persicaria Arsmat, Arum wakerobin, Semen sinapi Mustard-seed, Semen Erucæ Rocket-seed, Saponaria Soopwort, Chelidonium majus Selandine, Guaiacum, Cortex Winterani, the Flowers and Spirits

rits of Sal Armoniac, Spirit of Soot, and of Harts-horn.

6. 2. There are also other Simples. which though they are not Virtuated with fo Specifique and Anticorbutic a faculty, yet by deobstructing and deterging the Bowels and Mesentery, and attenuating the gross Tartarous Blood. they are oft Experienced fingularly to contribute to the Cure of Scorbutics viz. Rhaponticum verum, Helenium Elicampane, Iris Florent. Orris Gentiana, Centaurium minus, Absynth. Wormwood, Betonica Betony, Salvia Sage, Petafitis Butter-burre, Filix Fern, Chamadris Germander, Baccæ Juniperi, Sambuci Ebuli Dwarf-Elder, Satureia. Hereunto may be added the common Splenetic Vegetables, as Fumaria, Fumitory, Cort. Rad. Cappar the Bark of Capper-Root, Cort. Tamarisc. Cort. Fraxini Bark of Ash, Ceterach Spleen-Wort, Agrimonia, &c.

The Hermetic Art recommends Tin-Unr. tartari, Tind. Antimon. tartar.

Elix. Proprietat.

The ordinary Chymical Salts, as

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Sal Absynth. Cochlear. Card. Centeur. by as much as they participate of the Nature of Common Salt, are absolute-Among the Common ly hurtful. Spices, Pepper is experienced to be of an Ebullititious nature, and very præjudicial to all Scorbutics, and therefore ought to be omitted in those Præscriptions the Learned Oxonian hath recommended to the Publick.

What concerns the forms of Compolitions out of these forementioned Simples, it is to be remarqued, that Electuaries, Tablets, Powders, and Syrups also, unless præpared according to that or the like manner I shall propose below, are of little or no use, and are only interspersed by Authors among their forms for pomp, or to add to the Bulk of their Tracks; for it's the Volatil Salt is the fole energic part of these Vegetables, which in the præparation of Conserves, and Syrups, and in reducing them into Powders for the use of Tablets, doth Evaporate; wherefore I shall only offer to you some few select Forms of Decoctions, Infusions, Distill'd Waters, Spirits, and Juices.

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\$. 3. The form of a Decoction of little Trouble, and less Charge, but of great Virtue.

> R. Scob. Lign. Santt. 3 n. Lign. Sassafr. 3 i. Sal. Tartar. 3 i.

Coq in Aq. font. the iiii. ad confumpt. medietat. in Colat. infund. fol. Cochlear. hort. M. iiii. Becabung. M. ii. Absynth. M. ss. Cort. aurant. 3 ii. Coletur & reservetur in Ampul. Vitr. Dos. 3 iiii. ter per diem horis Medicis.

In the Winter when Herbs are scarce, I have frequently recommended this following with good Success.

R. Fol Cochlear M iii. Chelidon. maj M ii. Bac. Junip. 3 i.

Contundantr in mort. marm. sensim affund. Vin. alb tenuior. thi. exprimatur Liquor & reponatur in ampul. vitr. qui residendo clarescat. Dos. 3 iii. vel iiii. bis vel ter per diem. 5. 5. Of a Liquor by expression of Juices.

R. Fol Cochlear Succulent, q. l. Fol. Becabung.

Nasturt. aquat. an. part med.
Contund. in mort. marm. pist lign:
Liq valide express. thi. adjiciantur. Cort. Winteran. 3 ss. Cort. exter. aurant. 3 ii. Croc. Anglic 3 ss.
in phiola probe obturata per hor 12.
digerantur calore leni, dein liq.
coletur & in vitr. reponatur. Dos.
3 iiii. bis per diem.

s. 6. A Liquor by Infusion.

R. Rad. Armorac. 3i.
Rad. Gentian. 3ii.
Fol. Nastur. aq. Mii.
Fol. chamæd. Saponar. an. Mi,
Flor Centaur. min. Pi.
Rad. Zedoar. 3i

f. infus. per noct. in Aq. 8assafr. odorif. Vin. alb. an. thi. Coletr. de colat. capiat. 3 iii. vel iiii. pro Dost.

5.7. R. Rad. Helen. rec. 3 ii.
Raphan. 3 i fs.
Lign. Sassafr. 3. i.
Fol. Cochl. Cichor. an. Mx.
Fol. Salv. Beton. an. M ii.
Sed. min. Persicar. an. M i.
Baccar. rec. Junip. Samb. an. 3 ii.
Destillentur per vesic. cum refrigerio suspendendo in rostro alembic.
eroc. anglic. in pet. ligat. 3 i s.capiat 3 iii. pro Doss.

s. 8. Spirits that are drawn by way of Fermentation do, besides the trouble and length of time required, suffer a considerable loss in their Volatil and Spirituous particles, which to evade, hath given me the occasion to find out a way, whereby the said Spirits are Extracted in a greater quantity with very little Trouble or Cost, and much exalted in their virtues. This following I have oft Distilled, which may serve for a form for all the rest of the said Antiscorbutique Vegetables.

R. Kad. Armorac. 3 iii. Lig. Sassafr. Cort. Win. Aur. an. 3 s. Fol. Salvie Mi. Sum. Absynth. vulg. P i. Sal. Armoniac. 3 ii.

Vin. alb. to i. contusa & concesa digerantur per hor. xxiiii. dein destill. per Alemb. vitr. in cujus cucurb. fuerit calc. Viv. to is. Dof. a gut. xx. ad gut. xxxx.

5. 9. An Antiscorbutic Syrup.

R. Succ. rec. expr. Cochlear. 3 viii. Suc. Anagal. aquat. 3 iii. Suc. Betonic. Card. Ben. an. 3 i. Sacchar. alb. to i. depurando Gog. ad Spissit. Syr. craff. cui frigefact. affund. Spir. Cochlear. & Anagal. Aq. predicto modo simul destil. 3 i. M. f. Syr.

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6. 10. What relates to Elixir Proprietatis, præpared according to the process of Crollius, it's a Medicine beyond all Objections very proper against the Scorvey; but two Inconveniencies I apprehend in it, 1. By the immediate affusion of so great a proportion of Spirit of Sulphur, the other Ingredients are Adulted or Burned, whence whence the Elixir afterwards contracts an Empyreumatique scent and taste.

2. By reason of the Various Digestions and Distillations is consumed a great deal of time, attended with some needless Cost and Charge. Both these the College of Physicians of the Hague endeavoured to avoid, by directing the procedure in their Pharmacopea, Fol. 106. in this manner,

R. Aloes puriss. Myr. Elect.
Croc. Anglic. an. 3 i.
tritis ac vast vitreo angust.orisic.
inditis, superassunde
Spir. Vin. rect. to i ss.
Ol. Sulphur. rect. 3 vi.

Vase optime clauso f. digest. in VB. per dies quatuordecim; tindura abstrahatur, quæ per decant. separata

fervetur usui.

Although by this præscription they feem to have superated those two forementioned Inconvenients; there is a third remaining, which renders it very Incommodious for Exhibition, namely, that upon the Instillation thereof into any Aqueous Liquor, it's apt to be præcipitated in the form of

a Mucilage, all which to avoid hath given me the occasion, to præpare the Elixir Proprietatis thus:

R. Aloes Succotr. Myr. Elect. an. 3 i. S. d. Mirin. bene exiccat. 3 iiii. Distil, per retort. vitr. in aren. cleo destill. assund. Spir. vin. rest. to i s. spir. salis rest. 3 i. addendo Croc. anglic. 3 i. post digest. 4. dier. in cincr. decant.

Vel.

Adjiciatur Croc. Angl. 3 s. & diger. per dies 4. dein distil. in cucurbit. humil. appendendo extremitat. rostri alembic. croc. odoratis. nodul. inclus. 3 ls.

Guttula oleosa supernatantes separentur per tritor. & saccharo albis. dissolut. addantur liquori distillato.

for the Blood, by obtufing or alaying, and imbibing the putrid Acid Salts of the Blood; to this purpose the Learned Oxonian Author doth single

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gle out from all other præparations that fort of Crocus Martis, which by a long continuated Calcination is elevated into an Acool, and totally stripped of its Salin and Sulphurous particles, imagining that the foresaid crocas through its droughty natury, doth Appetere and Absorb all Acrimonious Salts and Sulphurs of the Humours, as being Consentaneous to those it is now deprived of This Mode of Reasoning is most certainly verified in the Nature and Effects of Antimonium Diaphoreticum, Coral, Pearl, &c. But nothing is more Erroneous, than the applying it to the Ætiology (as he may term it) of that kind of Crocus Maris; for abstract from it Vinegar, or any other Acid, by Destillation, and you shall Experience it, to come over every whit as Acid, as when it was Affused. Wherefore it ought to be abandoned from being used in any Distemper, excepting in some Loosnesses or Hæmorrhages, where and when Emplastics may be judged serviceable, and in those cases I have observed the Effects of Terra damnata Vitriol. dulc.far more ample, having oft præscribed it with Success. 6. I2.

5.12. All præparations of Steel, that confift in the form of Powders, are attended with an unavoidable inconvenience, being apt through their weight to descend to the bottom of the Stomach, and sometimes to penetrate through the Pores of the inward Tunic, and there lodg between the Tunics, occasioning so great an oppression, that the Patient is rendred subject to almost Incurable Palpitations and Lipothymies; for the Steel Powder is only with the greatest difficulty, and fometimes never to be Expelled from between that Tunics; infomuch that under that notion it may be termed Synonymous with Venoms, against which the Magnet Stone powdered and exhibited Internally, is the only Antidote. Not many years fince I dissected one that expired of a Dysentery, against which an Apothecary had for many dayes given two and three Drams of Crocus Martie aftring. for a Dose; the same præparation that is so much Extoll'd by my Author. Upon the separating of the Junica Rugofa from the middle Tunic, I deteded a vast quantity of red sand, which upon

upon Examination of what had been taken, I found was some of the Crocus Martis this skilful Glyster-pipe

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Doctor had given.

6. 13. Those that consider Salts to be dissoluble, præser Vitriolum Martis before Chalybeat Powders, defigning thereby to avoid the Permanence of the latter in the Body; but then are certainly Frustrated in their scope of referating oppilations, there being nothing to prævalent in an Obstructive and Astrictive quality, as the foresaid Vitriol of steel, which that you may give the greater credit to, this I do discover to you as a great Medicine for stenching Hæmorrhages, and it is by this sole præparation I have Cured a great number of Spitting of Blood, and several Women of immoderate Uterin Fluors, both Sanguinolent, and White. Wherefore it must be deemed an Error Albo ealculo notandus in those, that prætend to imitate Diuretic Mineral Waters, fuch as the Savenier at the Span, and the Wells of Tunbridg, by diffolving of Chilybeat Vitriol in Spring-Water: But how great a Detriment this must necefnecessarily import, may be best understood from those, to whom they have been præscribed. Notwithstanding by means of another Method, Artiscial Mineral Waters may be præpared so effectual and pleasant withall, that they shall in a great measure excel the Natural. By the advantage of these it is I have freed several from Lixivial Scorveys, that had proved obstinate to all other Methods.

Touching the use of Purgative Mineral Waters, viz. Barnet, Epsom, Dulledg, Chigwel, Stretham, Northall, &c. To some Scorbutics they have proved Auxiliary, to others Hurtful.

§. 14. The Virtue of those Diuretique Mineral Waters is derived, from a permixture of some crude Elements of Iron, impersectly Coagulated or Compounded into Particles, with Water sourcing near and washing through the Matrices of the said Crude impersect ferruginous Elements; or to be more plain, the said Mineral Waters do consist of a dissolution of Vitriolat Salt, volatilized by the sulphur of Iron. From the Vitriol it is, the Wa-

ter is disposed to turn black upon the addition of Galls; from the Volatilizing sulphur affociating to it some of the Subtilest, Acid, Piercing, and Infinuating Particles of the Vitriol, it is, that they prove so excellent in driving down the Urin; and from the Exhalability of the faid Volatil Salt or Sulphur, volatilizing the purest part of the fixt Salt, it is, they upon a very small interval loose their Diuretic Virtue, especially if violently shaken or moved, by being transported by Horse or Cart; though notwithstanding that, they will not lessen in their aptness of turning black by Galls, as long as they continue Imprægnated with the fixt Vitriolat Salt, which probably may be long enough; but in the Interim I would have you to escape that Error, many unpolisht Philosophers commit, in judging the faid Water to continue vigorous in its Urinating quality, as long as it continues alterable by Galls. On the contrary, as foon as it hath suffered the loss of all its Volatil Salt, which is in very few dayes, it doth assume a binding obstructive quality, and that in so dangerous

gerous a manner, that some have died of it; for the Water remaining in their Bodies, and not being carried off, had suffocated the Vital flames of the Heart and Arteries.

Those that have made Observation on the number of fuch, that have been hurried out of the World both at the season of their drinking the Waters of Tunbridge, or foon after they had left them off, may very well conclude, either, that the said Waters were not proper for their Distemper, or that as too frequently happens, their Bodies were insufficiently præpared; for it is far from a proportionable præparative, to Exhibit only a Dose of Stomach Pills, or a little Pulv. Sena comp. maj. but upon the use of a proper Purge or two some good Aperitive præparation of steel ought likewise to be mixt with a Cathartique, and then they will Experience their Bodies to have been well præpared by the safe and successful use of the Waters upon it.

fom, &c. are rendred Diuretic, Purgative,

gative, and sometimes Vomitive, through an Imbibition of some Immature principles of Copper, as appears on the tryal by Lapis Calaminaris, or sal Armoniac. The Cathartique and Emetique Faculties issue from the Sulphur of Venus.

Among other numerous capricious Chalybeat præparations, I find no form so agreable, and greatly successful, as the Tincture of steel; but not when præpared after the usual flovenish Mode. Some forts of Dulcifying Medicines in many Cases do wonderfully contribute to the Cure of an Acid scorvey, by obrusing the Acrimony of the Blood; such are most Testaceous Simples, as Coral, Pearl, Crabs-Eyes, Crabs-Cliws; Oyfter, Mufcel, and Egg shells; add to these Antimonium Diaphoreticum, Bezoard. Mineral. Bezoard. Jovial. Magister. Fovis, Chalk. &c.

CHAP. XXIV.

Of Specific Alteratives in a Lixivial and Saponary Scorvey.

1. Antiscorbutic Simples of the first Order. 2. Simples of the second Order. 3. Simples of the third Order. 4. A Narrative of a Scorbutic Case. 5. Some other Antiscorbutics. 6. An account of another Scorbutic Case. 7. A third Scorbutic Case. 8. Some other Chymical Antiscorbutics, and a Description of the Author's Nitrum Tartarisatum .9. The great Virtues of this Nitrum Tartarisatum.

g. 1. The Simples that are indued either, 1. With a Lentour or Mucilaginous moisture.
2. With an Acidity Or, 3. With a cooling detergent Faculty, are æsteemed very proper, and useful in an Alcalious Scorbut. Through the first

of these Qualities, they Lenify and Mitigate the Acrimonious Salts of the Humors; through the second, they Hebetate the corroding Alcali; and through the third, they move, attenuate and divel the rendulous parts of the Blood, withall Clarifying or Depurating it from its Impurities.

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1. Of the first Order. Are,

Borrage, Bugloss, Violets, Mallows, Marsh-mallows, the four greater Cold Seeds, Jujubees, Sebestens, Corrents, Liquorish; Gum Arabic, Dragant, Milk, and in some Cases the Milk Diet.

2. Of the second Qualification.

Are,

Acetosa Sorrel, Trisolium Acetosum Wood-Sorrel, Oranges, Limons, Citrons, Cremor and Spiritus Tartari, Spiritus Diana, Spir. Sulphuris, Vitrioli, Salis com. nitri, Veneris Ex arugine, Antimonii, Spir. acid. Guaiac. Juniper, Liquor Corallorum, Perlarum, Crystalli acida nitri, &C.

3. Of the third Ranck. Are,

Ligustrum Privet, Aparine Clivers, Che'idonium minus Pilewort, Nummularia Money-wort.

4. These four are by Authors pro-

claimed Specifics in the Scorvey, the frequent Experience of their Use in fome Scorbutiques confirming them to be fuch; but their Ignorance, through what manifest Virtue their Effects are performed (these being diametrically contrary to the other Igneous Volatil Specifics) renders them incapable of judging, to what fort of Distemper, in what manner, and at what time they ought to be applied. A while fince, a Patient made her complaint to me of sharp running pains, flying up and down her Limbs. a pricking in her Gums, glowing of the Calves of her Legs, and sometimes of the Shins, a gnawing pain about her Ancles, especially upon much stirring, heats and pustles in her Face. She had made use of several Physicians, whose Opinion concluded her Distemper to be the scorvey, and therefore had præscribed several Decoctions, and Infusions of scorvey-grafs, Watercresses, &c. Distill'd Waters, and Spirits of the like Ingredients, which the found, had rendred her much worse, but some two Years before, confessed she had derived much benefit

nefit from them, but now they extremely aggravated her Symptomes. This method of Cure I perceived depended on Indications, defumed from those pestilent principles of Rancidi and Pendulous. The Error flowed from apprehending this an Acid Scorvey, which plainly appeared to be Lixivial. I præscribed her this Lenitive:

R. Pulp. Cass.

Tamarind. an. 3 ii.

Mechoacan. alb. ras. 3 ss.

Pulo. sen. comp. maj. 3 ss.

Crem. Tar. 9 i.

Syr. ros. sol. 3 ii.

M. f. Bol. ii.

Deaurentur.

Capiat mane cum custodia.

This Operated very gently and well, upon one days interval it was repeated. The fourth day she took this following Drink, and continued it three Weeks.

R. Rad. Buglof. 3 i fs. Fol. Aparin. A New Discovery of the Scorvey. Nummular. an. M. iiii.

Decog. in Ser. lat. q. s. ad th i s. In Colat. dissolv. Cryst. Tar. 3 i s. M.t. Apoz. pro 4 dos. mat. & vesp.

Once a Week she made use of the above written Bole. In the space of her whole Course of Physick, she was Blooded once in the Right Arm, and once at the Hamorrhoides. The fuccess of these Means restored her perfectly to her former Health, in less than a Month, which she hath enjoyed ever fince. How eafily is a Diftemper Cured, whose Cause is rightly understood; whereas had this Woman adhæred to the præscriptions of her pendulous Physicians, she would certainly have been among her Ancestors long ere this. Others I Cured of the fame kind of Scorvey (Pramifis Universalus) chiefly by this following:

R. Rad. Sarsaparil. 3iii.

Rad. Chin. non carios. 3i.

Rasur. Eboris 3 vi.

Coq. in aq. font. to vi. ad consumpt.

unius tertiæ, sub sin: cott. adde.

Rad. Cichor.

Scorzon. an. 3 i s.
Fol. Chelidon. min. M. vi.
Colaturæ affunde
Elix. Antimon. fulv. 3 i. s.
M.

Capiat 3 iiii. ter per diem boris Medicis,

Note, that Sarsa and China are made use of in this Decoction, not for their Sudorifique faculty, but for a quality they are endued with of sweetning the Blood, by obtusing its Acrimonious Salts, through the Lentour, which their farinaceous substance contributes to the said Decoction.

5. To those four principal Antiscorbutic Vegetables may be added
these following, Scorzonera Hisp. Vipers-Grass, Clematis Daphnoides Periwinckle, Rhaponticum vulgare Great
Centaury, Virga Aurea Golden Rod,
Rumex acutus Ditchdock, Hispidula
Catssoot, Auricula muris Mouseare,
Aquilegia Columbine, Rad. Graminis,
Geranium Rupertianum Herb Robert,
PyrolaSea-lavender, Cichoreum Succory,
Sempervivum majus Housleek, &c.

6. The difference in qualities of these Simples

Simples cannot escape your Advertency (though all agreeing in the same faculty, of oppugning Lixivial and Saponary Scorveys) some being temperate, fom cold and moift, others cold and dry, and aftringent; for which reason you may præsume, their use is limited to Diseases, though Lixivial, yet attended with particular Symptoms, fo that they are not promiscuously to be applied. But because Practical Instances may serve you for a more clear Example, I will give my felf that trouble, of fetting down the Case of a Patient, who Repaired to me the last praceding Year; it was a great heat in the Epigastrical Region of the Abdomen, that chiefly incommoded him, which for the most part exercifing its fury in a fixt place, that fometimes was at the bottom of the Stomach, sometimes a little lower (which must be in the Pancreas) and fometimes on the Left-side, where the Spleen refides; so that here was a Lixivial Scorbutic Humour, that from the Spleen was toffed to and fro to the Stomach, or sometimes to the Pancreas through the Splenic branch and Vas Breve ;

Breve; the other Symptoms were a nidorulent crudity of the Stomach. a dejected Appetite, thick reddy spumous Urin, low inæqual Pulse, difficulty of Breathing, and purpre Puftles erupting and retroceding in the Those several eminent Physicians (that is eminent for a numerous Practice) subsequent to their Opinion, that it was the Scorvey, had for feveral Years treated him, with those common igneous Antifcorbutics, until his daily Experience of the præscribed Medicines discovered to him, it was to those unskilful Courses of Phylick he must impute a great part of the growth of this Disease. His Body being very thin and exanguious counter-indicated Bleeding. The Crudities of his Stomach and Infarctions of the Mesaraiac Vessels by Lixivial pendulous Blood required Lenitives, mixt with some gentle Cathartics.

R. Elect. Linitiv. Man. Calab.
Pulp. Tamarind. an. 3 ii ss.
Nitr. Tartar. nostr. gr. xxv.
Diff. in decoct. Prunor. dam. & sem.
fen. 3 iii. M. f. Pot.

This

This he used twice a Week; in his interval days took this following Drink for five Weeks, and was perfectly restored to his former Health; but for confirmation of his Cure, I ordered him to drink the Waters at Tunbridge for one and twenty days.

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R. Rad. Tarax. 3i.

Fol. Chelidon. min. Miii.

semperviv. maj. Mi.

Glycyr.raf. 3 fs.

Coq. in fer. lat. q. s. ad thi.

Coletur. & inftil. Elix. Antifcorb.

nostr. 3 ii.

M. f. Apoz.

Sine Sacchar. vel Syr.

\$. 7. To another Scorbutique, whose Palpitations and Lypothymies had rendred him very languid and weak, besides Purgatives and Bleeding at the Hæmorrhoides, præscribed this.

R. Rad. Scorzon.

Vincetox. an. 3 i.

Fol Chelidon. min.

Aparin. an. M it.

Virg. Aur. M i.

The Disease of London, or

Hord. Mund. Pi. Glycyr. raf. 3 i s.

Coq. in Aq. font. q. s. ad this.

In Colat dissolv. nitr. Tartar. 3 i.

instil. tind. mart. gut. xv.

M. f. Apoz.

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Capiat 3 iiii. ter per diem borie Medicis.

In case a Scorbutique of this kind is afflicted with a Diarrhea, or Dysentery, you must make choice of Ligustrum, Auricul. Muris, or Hispidula; if Dysepulotic Ulcers of the Legs be the prævailing Symptoms, præser Virg. Aur. Pyrola, Symphyt. Petr. or Bellis.

It is this fort of *scorvey* and its subdivisions (which hitherto hath not been observed by any) that occasions so many ambulative Patients, wandring from one Physician to another, among whom some are so ingenious to consess, they do not know what name to give the Distemper, or what to make of it.

§. 8. Besides these forementioned I have found a singular Virtue in steel drops, præpared after my Mode; likewise

wife in an Elixir Antiscorbuticum, the Basis whereof is Antimony (tripped of its venenous sulphur, and rendred cooling, Diuretic, and a very high Mundifier of the Blood. Neither have I ever observed a Medicine in most Scorbutic Cafes, to exceed the powerful faculties of my Nitrum Tartarifatum, the præparation whereof is, as followeth; but for your prævious information, you are to take notice. that in præparing Antimonium Diaphoreticum, I am used to add a triple proportion of salt Peter, pulverised and fifted, to crude Antimony, likewise poudered and fifted; this being mixt together, I put by little Ladlefuls into a Pipkin made Red hot in a Reverberating Fornace, covering the Pipkin upon every Injection of the faid mixture; and having Injected all. I cover the Fornace with a great Tile, and let it Calcine, until the Coals be burned out. The Mass being yet warm I pouder, and put it into a large Bason, on which suppofing the Mass to be a Pound in weight, I pour about a quart of warm Water, and stir it very well about, afterwards let

let it stand four or five hours, that the Powder may settle on the bottom. decant the Water into an Evaporating body, affusing to it half a pint of distill'd Vinegar, evaporate it to a Pellicle, and fet it in a Cellar or other cool place, and there let it continue three or four days to Crystalize; collect the Crystals, and evaporate the remaining Liquor again to a Pellicle, afterwards fet it on Crystalizing, and fo proceed, until all is passed into Disfolve the Crystals into Crystals. distilled Spring-water, strain it, Evaporate, and Crystalize it over again, until it prove very pure and transparent. What relates to the remaining Calx of Antimony, proceed to your ablutions, until the Powder be perfectly Edulcorated; it is not here I desist, but make a farther progress to a maturation, and protrusion of the essential or centrical sulphur, and then I find it to be a Medicine, that deserves a singular Character in many Distempers.

§. 9. I ought not to recede from the præparation of Nitrum Tartarisatum, without giving a description of

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its Dose and Virtues; from half a Scruple to two Scruples, it hath performed effects in the Scorvey and some other Chronical Distempers, which could never be expected from the Arcanum Duplicatum, Tartarum Vitriolatum, or such Hermaphroditic præparations, and Neutral Medicines; for besides its penetrative, incisive, detergent, and deoppilative Qualities, it doth retain a proportion of Antimonial Salt, Centrical Sulphur, and a true Idea of what ever excellent Faculties Antimony in its best præparation is enricht with, so that there is scarce any Impurity (whether Manifest or Latent) in the Blood or Bowels, that can escape its energy; But when you have made use of as many Ounces of this Nitrum Tartarisatum as I have, I doubt not but you will have cause to give the same Character of it I have here Expressed.

CHAP. XXV.

Of the Cure of a Stomachie Acid Scorvey.

1. An Observation on the structure of the Stomach. That it is the Tunica Fungosa is the Seat and Matrix of many Chronical Diseases. 2. The Method of Curing a commencing Stomachic Scorvey. Antiscorbutic Pills. An Antiscorbutic Decoction. 3. Emetics and Gum Cathartics are most effectual Remedies in an inveterate Stomachic Scorvey. Gum-Pills.

4. Corroboratives proper after a Course of Purgatives. 5. Specisics against an Hepatic Scorvey.

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Observation touching the structure of the Stomach, before I can render the Indications plain and obvious. Its contexture doth consist in four Membranes. The first I call the Tunica Mucosa, or the slimy Coat, being destined by Nature for a defence of the nervous Tunic from those Acrimonious moistures,

moistures, the Stomach upon every digestion doth abound with. Tunic if at any time it be abraded, occasions great Pains, Vellications, continual Singultitions, and enormous Vomitings. The fecond from those various Sulcations and Wrincklings may aptly be termed the Tunica Rugofa. This Tunic is very Nervous, and confequently indued with a most exquisite sensibility, derived from the Ramifications of the External branch of the fixth pair, and from the Plexus fexti paris mesentericus; the use of it is, to corrugate the Stomach, and to amplex the ingested Victuals sirmly and strictly. Both the forementioned Tunics late Authors have improperly named the Crusta Carnosa. The third I call the Tunica Fungosa, consisting of a laxe spongy flesh, serving to give an ample space and passage for a large proportion of Arterial Blood, from whose præsence and præterslux in its Circulation, the Stomach doth receive a fufficient heat to dissolve, concoct, and elaborate its contents into a Chyle. Another great use is, that it is subservient in the nature of a Concoctory, where

where the crude Blood circulating is to be Digested or Concocted into a sweeter and aqual Mass; so that you must make this Annotation, that it is here the groß, and phlegmatic crude Blood doth so frequently stagnate; whence that pelanture and load at the Stomach, which the Sick do fo commonly make complaint of in most Distempers, is occasioned, and not from crude viscous Humours in the capacity of the Stomach, which Phyficians, with the Ignorant vulgar, term a Cake of fleam; for were this a truth, a detergent Aloetic Laxative would at once scour the Stomach, and disburden it of those weighty Humours, or at least a Galiard Vomit cannot be supposed to fail in that Indication; but on the contrary we find, that in many Cases scarce a score of proper Purgers, or half that number of Emetics will accomplish the design; however this is not to be apprehended fo strictly, but that some crude Humours may float, or through their tenacity adhare to the fides of the Stomach, and may be as conveniently removed thence by a detergent Laxative.

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tive. It is in this Tunic, where many Diftempers take their root, which generally proves of so difficult an eradication; but be not so facil, as to erre with the groß of Physicians, in imagining, that it is those thick mucilaginous humours, penetrating through the Tunica Mucofa and Nervofa, do lodge in the Tunica fungosa, and constitute the Cause of those durable pefantures of the Stomach; for the faid Humours are nothing near proportioned in subtility to pass through the thick and compact bodies of the forementioned Membranes. The fourth Tunic is the common Tunic, derived from the Peritoneum.

6. 2. This sufficeth to inform you, that in a commencing stomachic scorvey nothing is more properly Indicated, that an Aloetic Eccoprotic præpapared, as hath been proposed before, and repeated once, or twice, and sometimes thrice a Week, and in the Interval dayes a Detergent and Antiscorbutic decoction. Thus I have Cured several with these following præscriptions, being sometimes a little varied T

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to answer their several Temperaments, Ages, and other Circumstances.

R. Aloes nost. prep. 3 ii.

Cort. Winteran.

Nitr. Tartarisat. an. 3 ss.

Syr. Ros. Sol. q. s.

N. f. Mass. Pil.

Equavis 3 a. formentur Pil. No. ix. & deaurentur. capiat Pil. iii. vesp. sub ingress. in lett. & Pil. v. sequent. aurora, superbibendo baust. liquor. sequent.

R. Fol. Cochlear. hort. Miii.

Fol. Becabung. Mii. Sum. Absynth. vulg. Pi. Flor. Centaur. 3 i s. Cort. Aurant. 9 ii.

Infund. in Aq. Cochl. Vin. alb. an. tb i.

Expressio reponatur in ampul. vitr. sumat 3 iiii. ter per diem boris Medicis.

§. 3. From the clogging and burden of the Tunica Fungofa we are to desume this Indication, that a safe and well prapared Antimonial Vomit is par
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particularly pointed at, which through its most subtil sulphur doth penetrate in a very short space through the whole Body and every part of it, diffolve the most tenacious Humours, and by stimulating the Nervous Tunic of the Stomach doth diflodge, and throw off those obstinate adhærents; and among those numerous præparations, I could never yet find any more fafe and effectual, than my Antimon. Refuscitat. the process whereof is described in my Great Venus. But where a Vomit is counter indicated by the unaptness and difficulty of evacuating that way, take your refuge to Gum Cathartics, which used for Eight, Ten, or Fourteen days, oft do wonders. The following Mass of Pills in cases of this nature I have feveral times præscribed, with a success fuitable to the Excellency of its Ingredients.

R. Aloes Succotr.

Gum. Ammon. an. 3 ii.

Solvantur in tinctur. gentian. q. s. instillat. Spir. Vitriol. philos.gut.xx. solutio coletur & evapor. ad mellagin. addendo deinceps.

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Spec. Diasen. 3 iii.
Sal. Chalyb. nostr. 3 ii.
Nitri. Tartar. 3 i s.
Bezoard. Jovial. 3 ii s.
Ol. Succin. gut. xv.
Elix. Proprietat. q. s.
M. f. Mass. Pilul.
Dos. a 3 i. ad 3 i.

ø. 4. Since in Scorbutic Distempers, longer Courses than of a Fortnight or three Weeks, do not only occasion a Fatigue, but a weakness also to the Stomach, a confortative Electuary ought to be made use of for six or seven days, and then return to a repetition of the foregoing Course; for Chronical Diseases, especially Scorbutics, proving very obstinate, require fræquent reiterations of Medicines.

A Conferv. Anth. Salv.

R. Conferv. Anth. Salv.

Absynth. tont. an. 3 i.

Pulv. Stom. ex aron. Quercet. 3 i.

Zedoar. Cort. Winter. an. 3 ss.

Elix. Proprietat. gut. xxxx. Syr. cort. citr. q.s.

M. f. Elect.

Capiat

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Capiat quotidie ad magnitud. castan. duabus horis ante pastum.

s. 3. An Hepatic Scorvey is vigoroufly oppugned by these two specificks; Aparine, and Chelidonium minus. Most cooling vulnerary Vegetables do also very much conduce to the Cure of this Distemper; hereunto add Agrimony and Lapathum acutum.

CHAP. XXVI.

Of the External Cure of the Mouth-Scorvey.

1. The Description of a Mouth-Liquor. 2. A Liniment for the Same use. 3. A Collution for the Mouth against Vicers of the Gums.

6. 1. DY what means to act against the Internal root of an Acid Scorvey, hath been formerly declared; how to rescind this Branch, the Month-Scorvey, by extrinsic Remedies, is the purport of this Paragraph. The correcting and fubduing

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the putrid acour of the Blood, appelling to the inward parts of the Mouth, and there occasioning a Vacillation of the Teeth, painful, spongy, tumested and discoloured Gums, I have more than once proved successful in, by this following Liquor.

R. Fol. Cochlear. M viii.

Post contus. in mort. marm. exprimatur succus, in q. dissolv. Alum. rup. 31. Colcoth. Vitriol. 3 ii. reponatur in vesta suil. qua strict clausa suspendatur in aq. tepid. donec Alum. & Vitr. sucrim penitus folut. dein destil. e cucurb. bumil in aren. restantia denuo suspend. in vesta. & repetatur destil.

Linteo præscripto Liquore imbuto confricentur gingivæ bis vel ter per

diem.

This Liniment in some manner doth imitate the Virtues of the former.

R. Fol. Salv. sic. pulv. 3 i.

Rad. Tormentil. pulv. 3 ii.

Flor. sal. armon.chalyb. 3 ss.

Balanst.

Balaust. pulv. ? i.
Mel. Crud. q. s.
M. f. Liniment.
Quo sepius inung. gingiva.

§. 3. If by reason of a greater Acrimony and Putrefaction of Humours the Gums grow Ulcerous, nothing seems parallel to this Collution.

R. Lixiv. calc. viv. 3 iiii.

Tinet. gum. Lac. 3 i. s.

Elix. Proprietat. 3 s.

Alum. Uft. 3 ii.

Colcoth. v. triol. 3 i.

Mel. ros. 3 i.

M. f. Collut. oris.

Qua sepius gingiva madesant.

CHAP. XXVII.

Of the External Cure of the Leg-Scorvey.

1. Description of the Authors Lapis Salutis. 2. A Liniment against Ulcers of the Legs. 3. A Cicatrizing Powder.

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Symptoms, that require a particular regard, against which my Lapis Salutis hath been Experienced to be very prævalent.

R. Vitriol. Rom. 3 iii.

Gerus.

Litharg. Arg.

Vitriol, Mart. an. 3 ii.

Virid. aris. 3 i.

Coa in Acet. acr. ad Gues.

Coq. in Acet. acr. ad supereminentiam duorum digit. semper agitando, donec acquirant consistent. luti, addita Bol. Armen. 3 i. coq. ad duritiem lapidis. Hujus particula solvatur in Vin. rub. adstring. q. s. quo lotis ulceribus applicentur iifdem plumaceoli eo madefacti.

§. 2. In case the Ulcers be very foul, the following Liniment may serve for an excellent Deterger.

R. Ol. Jovis Mercur. 3 i.
Mel. Rofat. 3 vi.
M. f. Liniment.

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3. Scorbutic Vicers of the Legs, though exquisitely deterged and incarned to the Surface, nevertheless prove Dysepulotic, or difficult to be acatrized by common Epulotics, whose defect is oft wonderfully supplied by the amalgamation of Lead, being subtilly pulverized, lævigated, and infperfed pretty thick on the faid Ulcers. and covered with unarm'd plegets, or dry Lint.

In conclusion of this Chapter, I shall onely insert this Caveat, to forbear using any kind of Undtuous greafie Medicines, be they Emplasters, Unguents, Liniments, or Oyls, they being all of a putrefactive nature, e-

specially in this fort of Ulcers.

What concerns Spots, Blotches, or Pustles, they do not require any particular applications, fince they usually vanish with the rest of the internal symptoms, upon a due course of Medicines.

Of Cordials.

1. Cordial Simples. 2. The form of a Cordial Julep. 3. Analeptics.

§ 1. THe Vital Faculty being commonly very languid in Scorbutic Distempers, indicates Cordial Refectives, and Analeptic Corroboratives. The former are chosen out of fragrant and spirituous Vegetables, viz. Flor. Borrag. Buglos, Rof. Viol. Calendul. Summit. Melif. Ceras. Nigr. Mala Citrea, Scrpil. Citrat. Menth. and Flor. Aurant. which latter in Vertue, Efficacy and Propriety, is a Specific Cordial in most Hypochondriae Maladies, by far exceeding all the fore-mentioned; and therefore cannot but wonder, that Physicians have of late years estranged themselves from the use of it: But in this as in many others I find some to be very mutable; sometimes Acids, and Coolers are to be præscribed in Fevors, otherwhiles they afteem them

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A New Discovery of the Scorvey.

pernicious, and hot Volatils are only to be recommended; and so the like instability of Practice may be observed.

to be recommended; and so the like instability of Practice may be observed in several other Distempers; what principle this flows from, you may easily conjecture. To these may be added the less hearing Aromatics, as Mace, Nutmegs, Cinamon, &c. likewise Wine, some vinous Composites, and some Alexipharmacs.

6. 2. Out of these several Compofitions, may be prascribed this following, which hath been experienced not to be unpleasant, nor ineffectual.

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R. Aq. stillat. ceras. nigr. tot. citr. serpil. citr. aurant. an. 3 is. Aq. Cinam. tenuior.
Vita Matth. an. 3 i.
Suc. Kerm. 3 i.
vel Confect. Alkerm. 9 iiii.
Syr. Melis. 3 is.
Spir. Menth. 3 i.
M. f. Jul.
Capiat. cochl ii. vel iii.
urgente languore.

The Citron and Limon Thyme wa-

ter I suppose to be Distilled upon a pravious digestion with half water and half small French Wine. Aq. Mirabil. I seldom make use of, because it's a Water very unpleasant, and consisting of disproportioned Ingredients. You must manage your Election of the foresaid Cordials according to their proprieties against an Acid, or Lixivial Scorvey.

5. 3. The Analeptic Corroboratives are chiefly Broaths made of a Cock, Chicken, or Veal, with the addition of Barley, or a Crust of Bread, Cordial Flowers, and a small proportion of Mace.

CHAP. XXIX.

The Cures of a Scorbutic Atrophy, of the Gout, and of Convulsions.

A Scorbutic Atrophy is remedied by reducing the Blood to its natural temperament, whereby its rendred Nutrititious, and apt to repair the diffipated parts.

Goats.

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Goats Milk, wherein Antiscorbutics have been boil'd, is universally received for a great Remedy in this Case.

Likewise this following in a Lixivi-

al Atrophy.

R. Rad. Consolid. 3 i.

Fol. hepat. stellat. Miiii.

Fol. Chelidon. min. Mii.

Ligust. Mi.

Flor. Borrag. Pii.

Decott. limac. vit. & ped. vervec. the iii. post digest. quatuor horar. destill. è cucurb. vitr. humil. in cinerib. de quo capiat 3 iiii. ter per diem scilicet hora 8. II. & 4. pomeridiana.

6.2. Against Scorbutic arthritic vagous pains, I find nothing æqual to my Tin-Œura Chalybis, and Tineur. Antimonii Fulva, either or both being in proper Vehicles exhibited for 14, or 21. dayes.

This Observation I affirm is univerfal in this Climat, that all or most Arthritic pains both Vagous and Fixt are cither Scorbutic or Venereal, that is depending on a Venereal impression or

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Tincture, which fome former Malignant infection (though cured 10 or 20 years past)hath left; for all Varolous diseases leave a stain or impression on the parts, which is as little deleble as the mark of a Blaft, or a Cicatrix of a Malignant Ulcer; for this reason these sorts of Gouts shall never be Curable, or indeed scarce palliable without Antifcorbutic or Antivenergal Specifics, or both mixt with Arthritic Medicines. Scorbutic Arthritic fixt pains I have oft removed by my Spir. Arthritic. extracted from the Sulpbur of several Minerals. For an Anodine and Palliative Topic, against the said Joynt torments, I only apply a Cinnaber Emplaster, but not that recommended in my Great Venus.

\$.3. Some Scorbutic Convulsions this tollowing Elixir doth vigorously op-

pugnate.

R. Elix. preon. prep. cum Spir. acid. Succin. 3 ss. Sal. Antimon. nostr. 3 ii.
M.

Capiat. gut. xx. vel xxx. ter vel quater per diem in Decect. antifcorb. The nt

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The Antispasmodics contained in the London Dispensatory, are chiefly these; Ungula alcis, cranium bumanum, viscum querc. Aq. Ceras. nigr. Lilior. convall. Flor. tilie, paralys. rute, Aq. Pæoniæ compos. Spir. lavendulæ compos. Spir. & tind. castorei. Spir. Lumbricor. Spir. Angelic. Aq. Petasit. compos. Syr.infus. Flor. paon. item Syr. Pæon. compos. Syr. de beton. compos. likewise ol. Succin. Spir. C. c. & Ol. Guaiac.

I have known two ounces of Aq. Gentian. compos. to do wonders, in fuddenly removing Convulsion fits in Men and Women.

The most proper form for Exhibition of the fore-mentioned Specifics against Convulsions is a Julep præscribed in this or the like manner.

R. Ag. flor. til.rnt. ceraf. nigr.an. 3 i. Aq. Pæon. comp. 3 i s. Tind. Castor. 31. Rad. Paon. p. Castor. p. Ungul. alc. raf. an 9 is. Syr. Paon. comp. 31. ol Succin. red. gut. x. M. f. Jul. Capiat Capiat part. med. ante paroxysm. Convulsiv. & alteram post parox.

For a Topic nothing is comparable

to Balfamum Succini.

In some Scorbutic Convulsions an Electuary may be proper to prævent the Paroxysms, because it's not so soon digested, but remains a good while in the Stomach to disperse its Virtues to the parts affected.

R. Conferv. Flor. Pwon. m. herb.
paralys. anth. an. 3 i.
Rad. acor. condit.
Nuc. Moscat. cond. an. 3 ss.
Confect. Mithridat. 3 i ss.
Rad. Pwon. pulv.
Castor. pulv.
Ungul. alc. ras. an. 3 ss.
Syr. de Pwon. comp. q. s.
Ol. Succin. rectif gut. xv.
M. f. Elect.

Capiat ad magnit. castan. duabus

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CHAP. XXX.

Of Malignant Fevors, and Small Pox.

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1. The Cause of Malignant Fevors.
2. The Cause of the Small Pox.3. The
Cure of the Small Pox.

6. 1. He Malignity that so oft is Concomitant and Supervenient to continual Fevors, constantly almost Reigning in and about London, seems chiefly to derive its Original from the ill temperature of the Air, which as hath been declared, is Salin and Scorbutic. That this is the principal Procatarctic, is evident from these two Reasons: 1. Because Persons differing from one another in the use of all the other Non-naturals, are subject to be surprised by the same Malignant Fevor, which confequently must then solely be derived from the Air, that only of all the Non-naturals being the same, and common to all. 2. Because many of those, that have the misfortune to fall Sick of a Milignant Fever, have been most temperate and regular in their Diæt, Motion, and Refting, Sleeping and Waking, Excretions and Retention, and Paffions of the Minds fo that it must be the Air only, that lies imputable of this Malignant Effect; add hereto, that Englift Bodies when incident into Fevors in some other Climates, are not afflicted with those Malignant Symptoms. The causality through which a Salin Air produceth such Malignant febril Effects, is by disposing the Body to engender great measures of groß Fuliginous and very Acrimonious steems, which by reason of the constipation of the External pores, and of other Internal obstructions are repelled, and incorporated into the whole current of the Blood, kindle and inflame its Bituminous parts, whose flames are thereby rendred Malignant and venomous to the Spirits, which then prove the immediate Cause of those Malignant Symptoms. 3. By this means the Blood foon becomes Lixivially Salin, Saponary, and runs into a groß deliquious Oyl, as plainly appears, when occasionally tapt out by Phlebotomy. Now

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Now the great difficulty of reducing this uncluous saponary Blood to its former qualification, and freeing it from that groß Salin and i crimonious Fuligo, is the Cause, that renders Malignant Fevers fo indomitable, and extremely pernicious. Upon this Hypothesis, which your strict Scrutiny and Observation in Practice will abundantly confirm, how Deleterious the ordinary Method of Curing the faid Fevors, and how contrary those hot Cordials exhibited by spoonfuls prove, is easily discovered; for instead of moving Nature to sweat by an Incilive, Attenuating, and Volatilizing quality, and by Amortizing the Lixivial Salts, they render the faid Salts more Lixivial and abforbing, and consequently dispose the Body not towards, but against Sweating. Neither are the Times or Seasons observed for exhibiting of Medicines, that are accordingly to be varied in quantity quality and other circumstances; a certain directory of all which can never be attain'd by Indications, desumed from that impertinently improved Notion of Fermentation, which hath

The Disease of London, or

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hath been the occasion of posting hundreds to the jaws of Orcus. measures ought to be taken in point of Management and Cure of this Diftemper, I have already proposed in my Tractatus Theoret. & Pract. de Febribus; But in short, the necessary præmisses not being omitted, I do repose a great confidence in an Antifebril Elixir, confifting of Ingredients of a mixt nature; and in Spir. cornu cervi prapared in a peculiar manner.

5. 2. The small Pox being in some kind not unlike the foregoing Distemper, I will only give my Sentiment, with Directions relating to the Cure, and then take leave. I cannot give Credit to the received Opinion, importing, that the Small is caused by some impurities, the Fetus contracted in the Womb, which afterwards Nature doth cast forth into those virulent Pustles: this among the rest is certainly a Deliramentum Antiquitatis; for considering that in Guinee, most parts of Africa, and almost throughout whole Asia, the Natives, or indeed the Strangers are never surprized with

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with the small Pox, though their Impurities contracted in the Womb (if any after many years interval) cannot be supposed less than ours, we must conclude, that it is rather an Endemie Disease, peculiar to the Northen Climes, or rather a feasoning or alteration of the Nature of Man, arriving out of the Microcosm of his Mother into the Macrocofm, impressed by the rudeness and difference of temperature of the Air of Northern Climes from his primogenial Temperament, which needs no other Confirmation, than the Instance of those Guineans, Indians, and others, who foon upon their arrival into those Climes are attaqued by the small Pox, which I can term nothing but a Scasoning, in like manner, as Northern Bodies are feafoned with other Diseases of the Climate that transport themselves to Virginia, Barbados, or other parts of the West, or East-Indics. That some undergo this feasoning of the small Pox, foon after they are crept out of the shell, others when they are grown up to riper years; and some not at all, being pravented by some Mortal Distemper, is occasioned, through the strength of Nature, some Bodies are indued with above others (that undergo the fore-mentioned seasoning soon after their Birth) whereby they are rendred capable to resist the alte-

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rative impressions of the Air.

Since then it is so obvious, that the Air is the principal External efficient. you must necessarily apprehend, that where the Air is Salin and Scorbutic, the Small Pox proves much more Malignant, and fræquently mortal, and that, by reason the Blood becomes Lixivial, Saponary, and Abforbing, which to dispose to a Diaphoresis, or Breathing, by those hot inflaming Cordials is in some as impossible, as to force Water out of a Flint; but on the contrary, the Salts of the Humors being rendred more Lixivial and Abforbing by them, they do not only through that absorbitive and droughty Faculty exhaust and dry up the serum of the Blood, but concentrate and retract, or draw in from the circumference those vol itil fuliginous Salts, together with the External Salts engendred in the Air, which otherwise Nature is ftriving

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striving to cast forth; and hence it is, that Old Women and Nurses by giving only large measures of plain moistening posset Ale, very small Ale boyld, or thin Fig-drink, prove infinitely more successful, than many if not most of Physicians: But now I must tell you also, that some of the ingenious Practicers of the College of London, taking their measures from the event the management of Old Women doth procure, and the ill Exit that attends the advice of other Physic'ans, do abandon all those hot aduring Species, and distill'd Waters, and præscribe temperate Moistening Diaphoretic Decoctions, and distilled Waters, whereby they justly deserve the Character of most Experienced and Learned Physicians, scarce one in a very great Number stooping to the Conquest of his Distemper, and that by reason of their apt and exquisite præscriptions. In fine, there are no principles, either those of Dogmatic putrefaction, or that of Fermentation, which to me do fo evidently expound the causality and reason of all those Symptoms and Changes, that so ordinarily happen in the small Pox, and Meafels, than the Hypothesis I have proposed; and what concerns the Practical Indications they are such, that in Success and happy Event, I am consident exceed all others.

6.3. The Alexiterial simples are Rad. scapios. slor. Calend. sem. Aquileg. fruit. caric. (in case of a Loolness or Vomiting Rad. Bistort. and Tormentil.) aq. Card. Ben. Scapios. Malv. the Composites are Aq. Scord. compos. Diascord. not that of Fracast. as it is set down in the London Pharmacopua with the addition of Pepper, Ginger, Cinamon, &c. which must necessarily be very pernicious in this Distemper, Spec. e chel. cancr. Diamarg. frig. Cardiac. Magistral. and such like

The Decott. Lent. though commended almost in every Author, I am certain is not agreeable to this Distemper in our Climat. Spir. Corn. Corv. particularly præpared, and Elix. Antifebril. are æqual to any of the fore-

mensioned.

This Treatife being swelled beyond my Intention, am Obliged to omit particular Obfesvations, and Conclude.

